ELECTRONIC CASH REGISTER

CE-6100

GROCERY
DAIRY
H.B.A.



FROZEN
FOOD
DELICATESSEN

USER'S MANUAL

Eu Di U.K.

CASIO®

Introduction

Congratulations on your selection of a CASIO CE-6100 electronic cash register. This ECR is the product of the world's most advanced electronic technology, for outstanding versatility and reliability.
Simplified operation is made possible by a specially designed keyboard layout and a wide selection of automated, programmable functions.
A specially designed keyboard layout and a bright, easy-to-read display help to take the fatigue out of long hours operation.

The main plug on this equipment must be used to disconnect mains power.
Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

CE

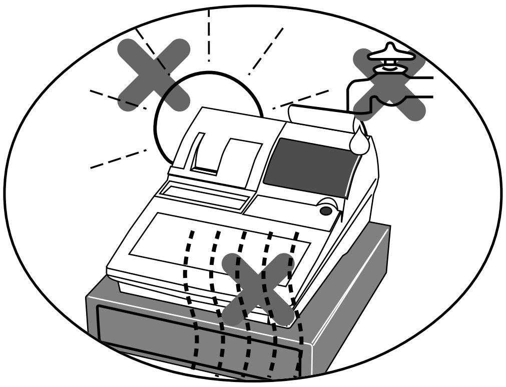
Casio Electronics Co., Ltd.
Unit 6, 1000 North Circular Road
London NW2 7JD, U.K.

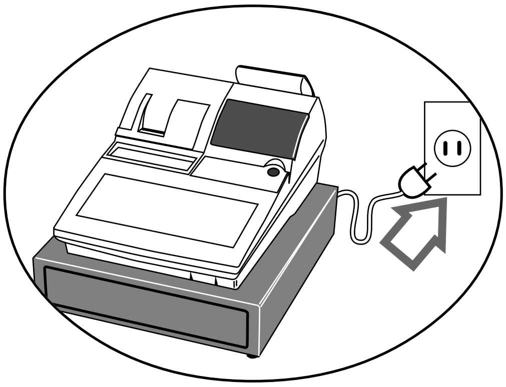
Please keep all information for future reference.

Important!

Your new cash register has been carefully tested before shipment to ensure proper operation. Safety devices eliminate worries about breakdowns resulting from operator errors or improper handling. In order to ensure years of trouble-free operation, however, the following points should be noted when handling the cash register.

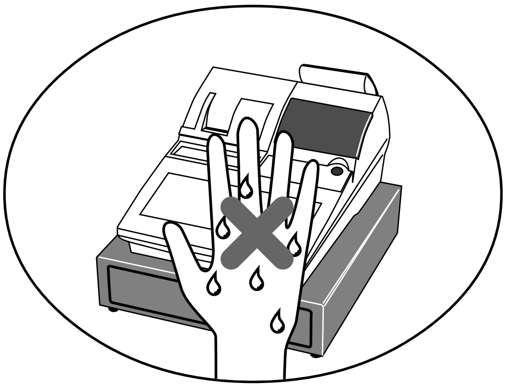
Do not locate the cash register where it will be subjected to direct sunlight, high humidity, splashing with water or other liquids, or high temperature (such as near a heater).

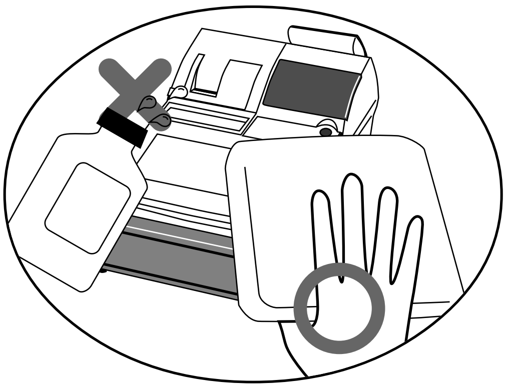




Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in the area.

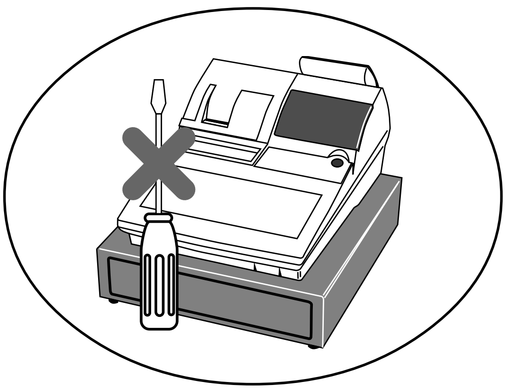
Never operate the cash register while your hands are wet.





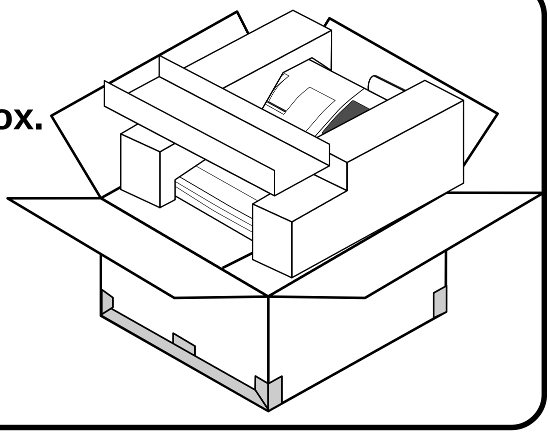
Use a soft, dry cloth to clean the exterior of the cash register. Never use benzene, thinner, or any other volatile agent.

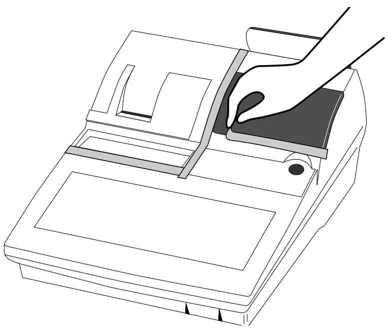
Never try to open the cash register or attempt your own repairs. Take the cash register to your authorized CASIO dealer for repairs.



This section outlines how to unpack the cash register and get it ready to operate. You should read this part of the manual even if you have used a cash register before. The following is the basic set up procedure, along with page references where you should look for more details.

1. Remove the cash register from its box.





2. Remove the tape holding parts of the cash register in place.

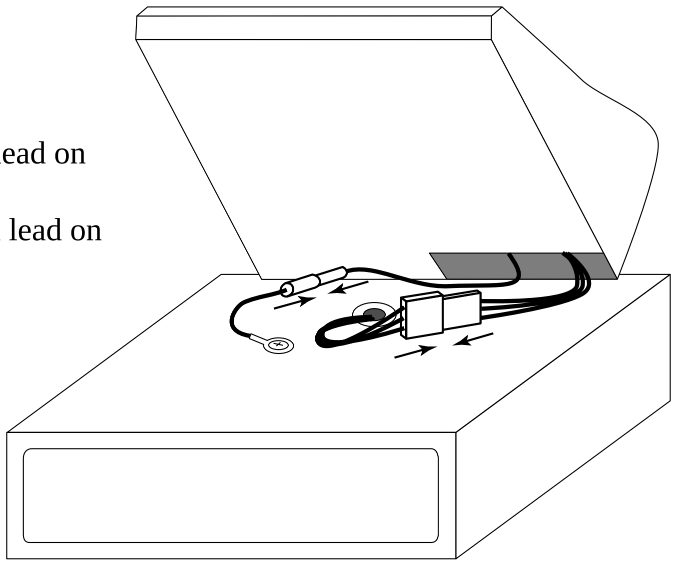
Also remove the small plastic bag taped to the printer cover. Inside you will find the mode keys.

3. Remove the cash drawer from its box.

The cash register and cash drawer are packed separately.

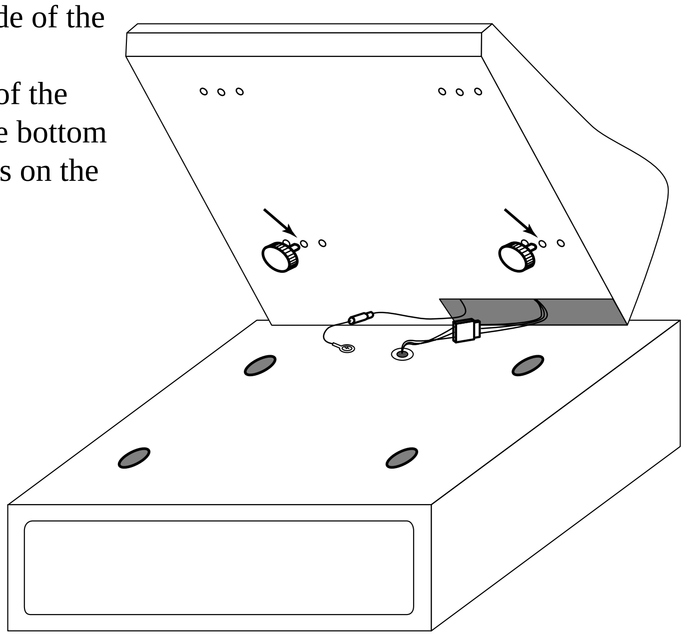
4. Connect the drawer.

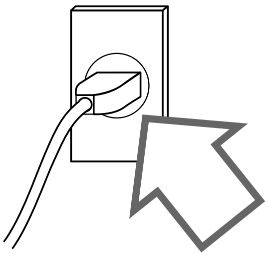
1. Connect drawer connector (three color lead on drawer) to the cash register.
2. Connect frame drawer connector (green lead on drawer) to the cash register.



5. Mount the cash register.

1. Screw in 2 fixing screws bottom side of the register.
2. Mount the cash register on the top of the drawer, ensuring that the feet on the bottom of the cash register go into the holes on the drawer.

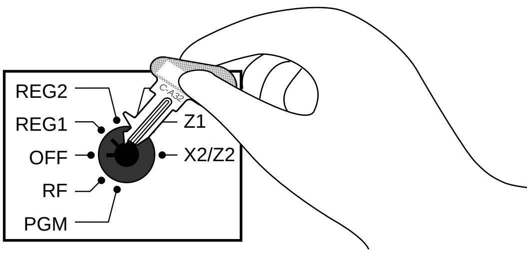




6. Plug the cash register into a wall outlet.

Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in your area. The printer will operate for a few seconds. Please do not pass the power cable under the drawer.

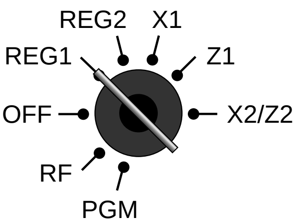
7. Insert the mode key marked "OW" into the mode switch.



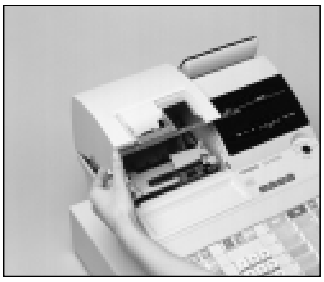
8. Install receipt/journal paper.

Loading journal paper

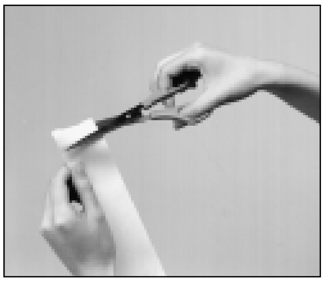
The same type of paper (45 mm × 83 mm i.d.) is used for receipts and journal. Load the new paper before first operating the cash register or when red paper appears from the printer.



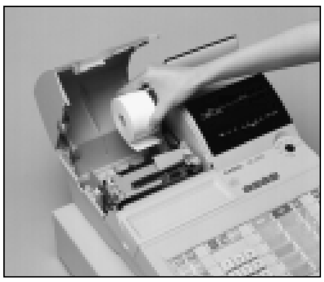
1. Use a mode key to set the mode switch to REG1 position.



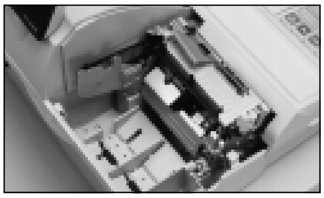
2. Open the printer cover.

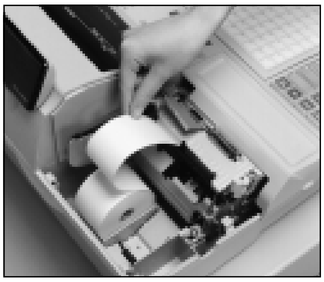


3. Cut off the leading end of the paper so it is even.



4. Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the printer.

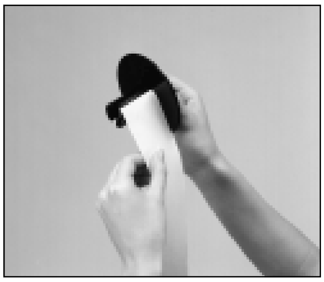




5. Drop the paper roll gently and insert paper to the paper inlet.



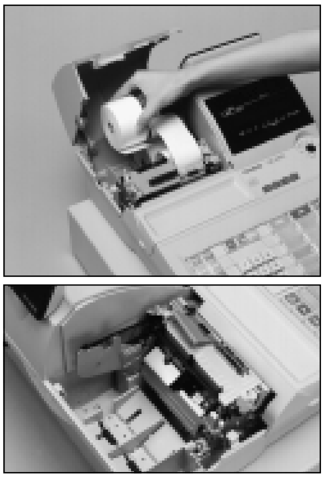
6. Press the JOURNAL FEED key until about 20 cm to 30 cm of paper is fed from the printer.



7. Slide the leading end of the paper into the groove on the spindle of the take-up reel and wind it onto the reel two or three turns.

Loading receipt paper

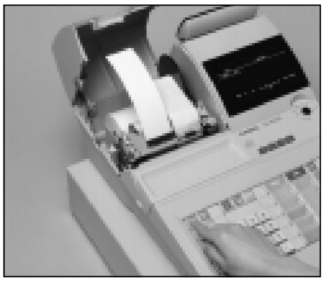
Follow steps ① through ③ under "Loading journal paper" on the previous page.



④ Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the printer.



⑤ Drop the paper roll gently and insert paper to the paper inlet.

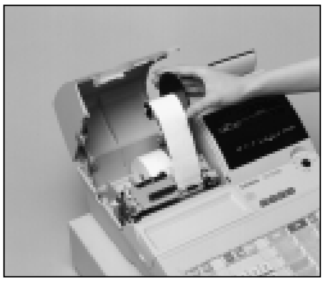


⑥ Press the [RECEIPT FEED] key until about 20 cm to 30 cm of paper is fed from the printer.



⑦ Set the printer cover, passing the leading end of the paper through the paper outlet.

Close the printer cover and tear off the excess paper.



⑧ Place the take-up reel into place behind the printer, above the roll paper.



⑨ Press the [JOURNAL FEED] key to take up any slack in the paper.

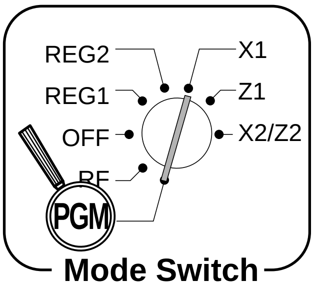


⑩ Close the printer cover.

Important!

Never operate the cash register without paper. It can damage the printer.

9. Set the date.



→ 1 SUB TOTAL → □□□□□□ → X/DATE TIME → C

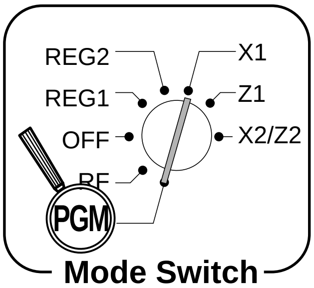
Current date

Example:

April 3, 2000 ⇨ 0 0 0 4 0 3

Year Month Day

10. Set the time.



→ 1 SUB TOTAL → □□□□ → X/DATE TIME → C

Current time

Example:

08:20 AM ⇨ 0 8 2 0

09:45 PM ⇨ 2 1 4 5

(24-hour military time)

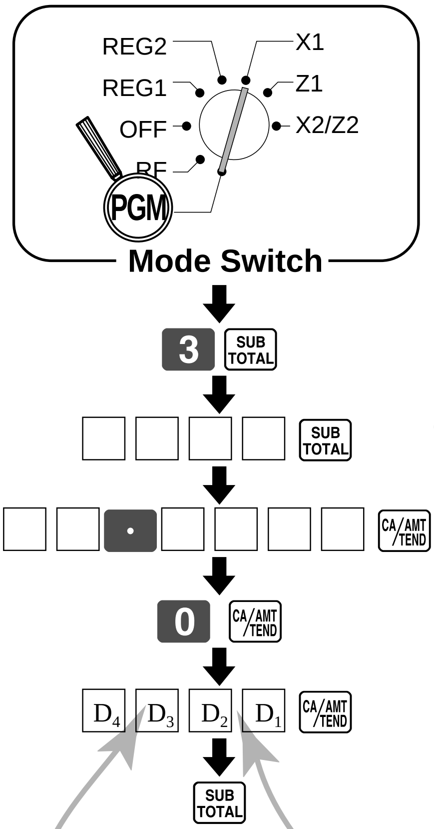
11. Tax table programming

Programming automatic tax calculation

Important!

After you program the tax tables, you also have to individually specify which departments (page 28) and PLUs (page 30) are to be taxed.

Programming procedure



Tax table 1 = 0 1 2 5
Tax table 2 = 0 2 2 5
Tax table 3 = 0 3 2 5
Tax table 4 = 0 4 2 5
(for Singapore, tax table 1 ~ 3 can be used.)

Tax rate (4-digit for integer + 4-digit for decimal)

Tax table maximum value (“0” means unlimited).

Rounding/tax table system code [*1]

[*1] Rounding/tax table system code

Rounding code specification

D_4	D_3	Rounding
5	0	Rounding off two decimal places
9	0	Rounding up to two decimal places
0	0	Cut off to two decimal places

Tax system code specification

D_2	Rounding
4	Singapore rounding

Tax system code specification

D_1	Rounding
2	Add-on tax rate
3	Add-in tax rate (VAT)
4	Tax on tax (Singapore tax)

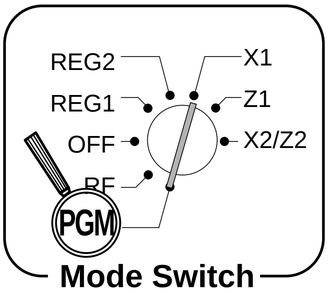
Getting Started

Tax table programming (continued…)

Example 1, Add-on rate tax:

Programming procedure:

Tax rate (4-digit for integer + 4-digit for decimal) ------------------ 8.25%
Rounding/tax table system code ------------------ 5002 (Round off)

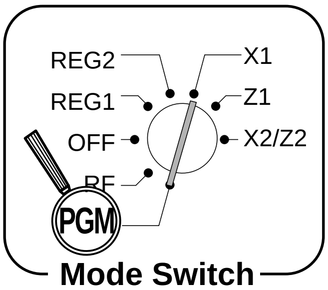


Key operation	Description
[3] [SUB TOTAL]	
↓	
[ ][ ][ ][ ] [SUB TOTAL]	Tax table 1 = [0][1][2][5]; Tax table 2 = [0][2][2][5]; Tax table 3 = [0][3][2][5]; Tax table 4 = [0][4][2][5] (for Singapore, tax 1 ~ 3 can be used.)
↓	
[8] [·] [2] [5] [CA/AMT TEND]	Tax rate (4-digit for integer + 4-digit for decimal)
↓	
[0] [CA/AMT TEND]	Always “0”
↓	
[5] [0] [0] [2] [CA/AMT TEND]	Rounding/tax table system code
↓	
[SUB TOTAL]	

Example 2, Add-in rate tax:

Programming procedure:

Tax rate (4-digit for integer + 4-digit for decimal) ------------------ 10.00%
Rounding/tax table system code ------------------ 0003 (Cut off)



Key operation	Description
[3] [SUB TOTAL]	
↓	
[ ][ ][ ][ ] [SUB TOTAL]	Tax table 1 = [0][1][2][5]; Tax table 2 = [0][2][2][5]; Tax table 3 = [0][3][2][5]; Tax table 4 = [0][4][2][5] (for Singapore, tax table 1 ~ 3 can be used.)
↓	
[1] [0] [CA/AMT TEND]	Tax rate (4-digit for integer + 4-digit for decimal)
↓	
[0] [CA/AMT TEND]	Always “0”
↓	
[0] [0] [0] [3] [CA/AMT TEND]	Rounding/tax table system code
↓	
[SUB TOTAL]	

Tax table programming (continued…)

Example 3, Singapore tax:

Programming procedure:

Tax table 1

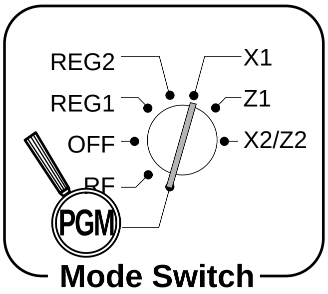
- Country tax ---------- 1%
- Round off/tax on tax ---------- 5044

Tax table 2

- Service charge ---------- 10%
- Round off/tax on tax ---------- 5044

Tax table 3

- GST ---------- 3%
- Rounding off ---------- 5002



Tax table 1

3 SUB TOTAL
↓
0 1 2 5 SUB TOTAL
↓
1 CA/AMT TEND — Tax rate (4-digit for integer + 4-digit for decimal)
↓
0 CA/AMT TEND — Always "0"
↓
5 0 4 4 CA/AMT TEND — Rounding/tax table system code
↓
SUB TOTAL

Tax table 2

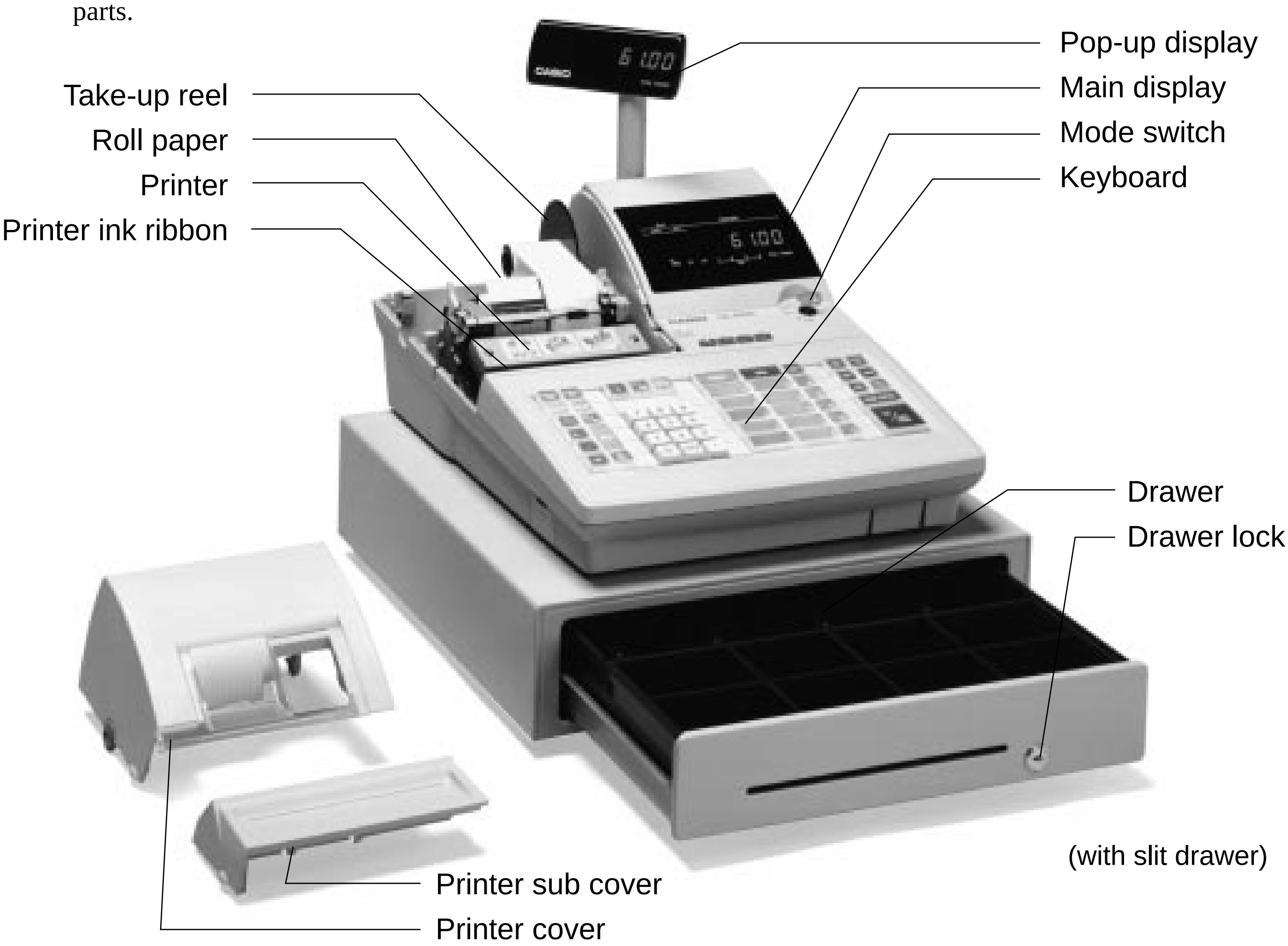
3 SUB TOTAL
↓
0 2 2 5 SUB TOTAL
↓
1 0 CA/AMT TEND
↓
0 CA/AMT TEND
↓
5 0 4 4 CA/AMT TEND
↓
SUB TOTAL

Tax table 3

3 SUB TOTAL
↓
0 3 2 5 SUB TOTAL
↓
3 CA/AMT TEND
↓
0 CA/AMT TEND
↓
5 0 0 2 CA/AMT TEND
↓
SUB TOTAL

General guide

This part of the manual introduces you to the cash register and provides a general explanation of its various parts.



Roll paper

You can use the roll paper to print receipts and a journal (pages 10 ~ 11).

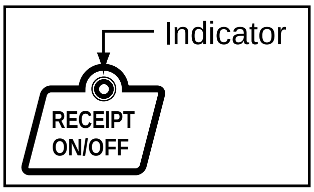
Printer ink ribbon

Provides ink for printing of registration details on the roll paper (page 97).

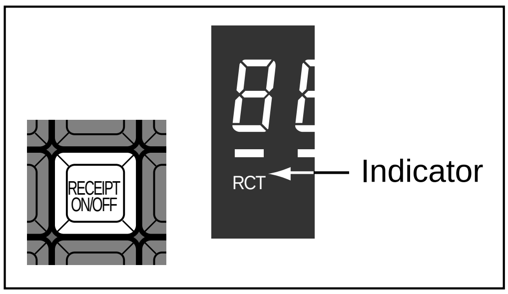
Receipt on/off switch / key

Use the receipt on/off switch/key in REG1, REG2 and RF modes to control issuance of receipts. In other modes, receipts or reports are printed regardless the receipt switch/key setting.
A post-finalization receipt can still be issued after finalization when the switch/key is set to off. The cash register can also be programmed to issue a post-finalization receipt even when the switch/key is set to on.

Receipt on/off switch



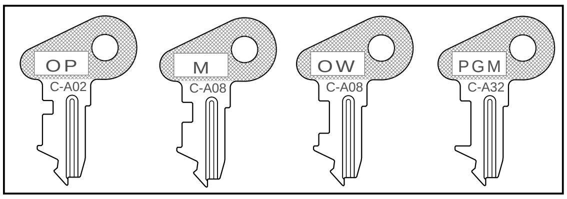
Receipt on/off key



When the register issues receipts, this indicator is lit.

Mode key (only for U.K)

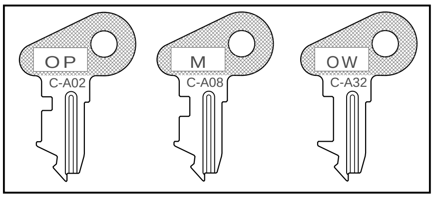
The following four types of mode keys are provided with the unit in the United Kingdom.



a. OP (Operator) key
   Switches between OFF and REG1.
b. M (Master) key
   Switches between OFF, REG1, REG2, X1 and RF.
c. OW (Owner) key
   Switches between OFF, REG1, REG2, X1, Z1, X2/Z2 and RF.
d. PGM (Program) key
   Switches to any position.

Mode key (for other area)

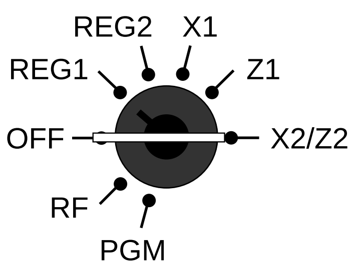
The following three types of mode keys are provided with the unit in areas outside of the United Kingdom.



a. OP (Operator) key
   Switches between OFF and REG1.
b. M (Master) key
   Switches between OFF, REG1, REG2, X1 and RF.
c. OW (Owner) key
   Switches to any position.

Mode switch

Use the mode keys to change the position of the mode switch and select the mode you want to use.



Mode switch	Mode name	Description
OFF	Stand-by	Any of the mode control keys can be inserted and removed from the mode switch in this position.
REG1	Register 1	Used for normal sales transactions. Any of the mode control keys can be inserted and removed from the mode switch in this position.
REG2	Register 2	Used for special operations. Since switching to REG2 requires a special key, such functions as discounts, credit sales, charge sales, check payments, and paid outs can be controlled by programming them as prohibited in REG1 and allowed in REG2.
RF	Refund Reg minus	Used for processing refunds. When the mode switch of the register is in RF position, you can access either the refund mode or the register minus mode.
X1	Daily sales read	Used to obtain daily reports without resetting (clearing) all total data.
Z1	Daily sales reset	Used to obtain daily reports while resetting (clearing) all total data.
X2/Z2	Periodic sale read/reset	Used to obtain periodic sales reports without resetting total data or while resetting all total data.
PGM	Program	Used when programming functions and preset data such as unit prices and tax rates. Also used when reading program data.

Clerk key/button/lock

In Germany, you can assign clerks by using clerk key or by clerk secret number (clerk key is equipped).
In other areas, you can assign clerks by using clerk button or by clerk secret number.
The method you are assigning clerk depends on the programming of your cash register.

Drawer

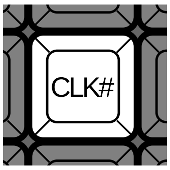
The drawer opens automatically whenever you finalize a registration and whenever you issue a read or reset report. The drawer will not open if it is locked with the drawer key.

Drawer lock

Use the drawer key to lock and unlock the drawer.

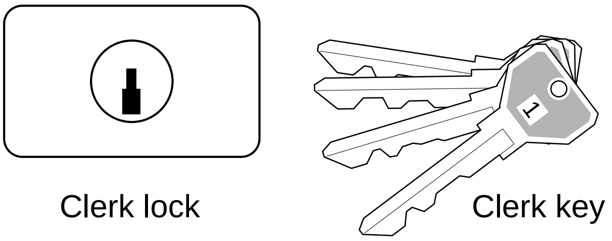
Clerk secret number key

When the cash register is programmed to use clerk secret numbers for clerk or cashier assignment, the clerk buttons are not functional.



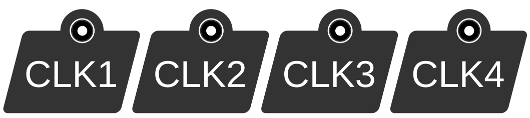
Clerk lock/key

You can assign the clerk or cashier inserting a clerk key into the clerk lock .



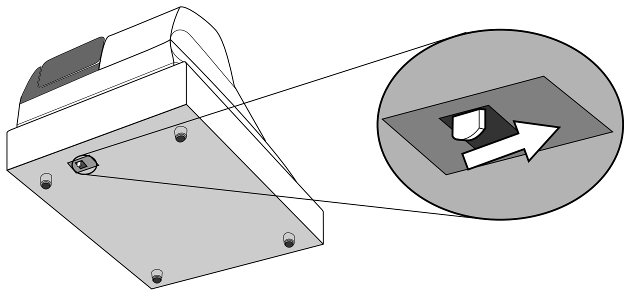
Clerk button

You can assign the clerk or cashier using the four buttons located below the display panel.



When the cash drawer does not open!

In case of power failure or the machine is in malfunction, the cash drawer does not open automatically. Even in these cases, you can open the cash drawer by pulling drawer release lever (see below).



Important!

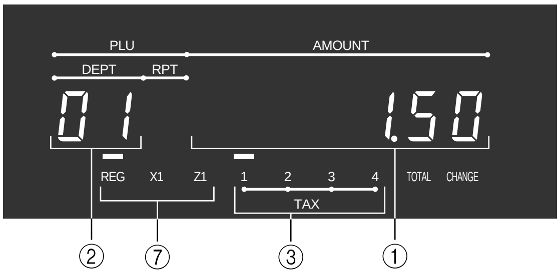
The drawer will not open, if it is locked with a drawer lock key.

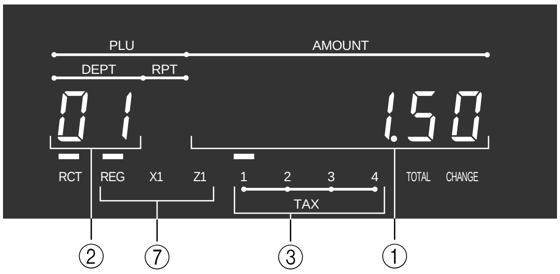
Display

Main display except for Germany

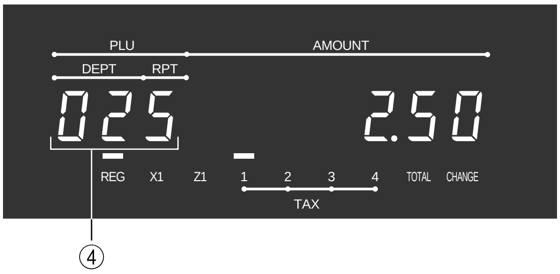
Main display for Germany

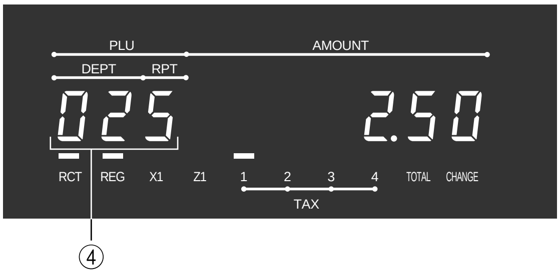
Department registration



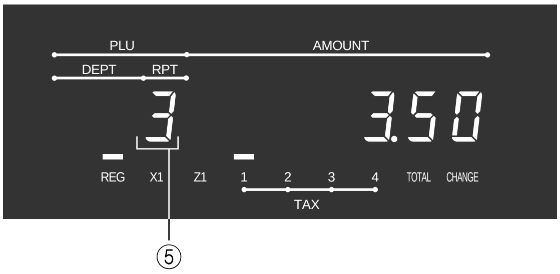


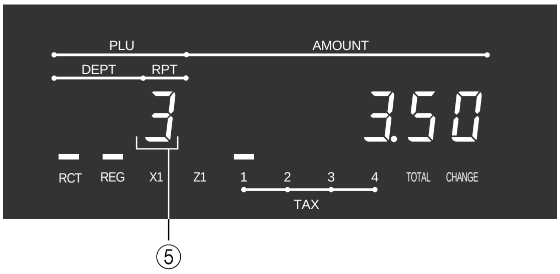
PLU registration





Repeat registration





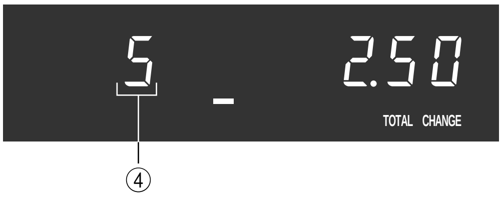
Totalize operation

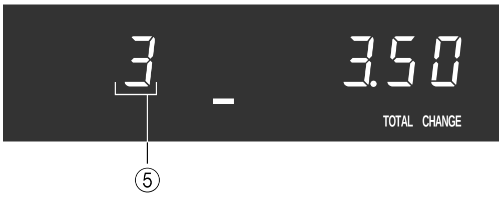




Customer display for all area









① **Amount/Quantity**
This part of the display shows monetary amounts. It also can be used to show the current date and time.

② **Department number**
When you press a department key to register a unit price, the corresponding department number (01 ~ 15) appears here.

③ **Taxable sales status indicators**
When you register a taxable item, the corresponding indicator is lit.

④ **PLU number**
When you register a PLU item, the corresponding PLU number appears here.

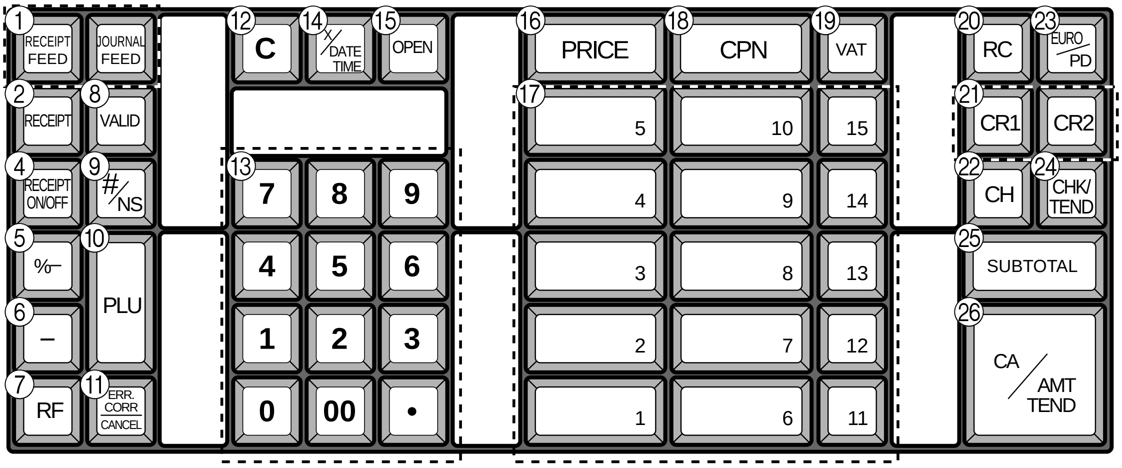
⑤ **Number of repeats**
Anytime you perform a repeat registration (page 27), the number of repeats appears here.
Note that only one digit is displayed for the number of repeats. This means that a “5” could mean 5, 15 or even 25 repeats.

⑥ **Total/Change indicators**
When the TOTAL indicator is lit, the displayed value is monetary total or subtotal amount. When the CHANGE indicator is lit, the displayed value is the change due.

⑦ **REG, X1, Z1 indicators**
REG: Indicates register mode
X1: Indicates daily sales read mode
Z1: Indicates daily sales reset mode

⑧ **RCT indicator**
When the register issues receipts, this indicator is lit.

Keyboard



for German

• Register Mode

① **Paper feed key** [RECEIPT FEED], [JOURNAL FEED]
Hold this key down to feed paper from the printer.

② **Post receipt key** [RECEIPT]
Use this key to produce a post-finalization receipt.

③ **Media change key** [MEDIA CHANGE]
This key is used to change media in drawer amounts. Pressing this key enters media change operation.

④ **Receipt on/off key** [RECEIPT ON/OFF]
Use this key pressing two times to change the status "receipt issue" or "no receipt." In case of "receipt issue", the indicator is lit.

⑤ **Discount key** [%−]
Use this key to register discounts.

⑥ **Minus key** [−]
Use this key to input values for subtraction.

⑦ **Refund key** [RF]
Use this key to input refund amounts and void certain entries.

⑧ **Validation key** [VALID]
Use this key to validate transaction amounts on slip.

⑨ **Non-add/No sale key** [#/NS]
Non-add key: To print reference number (to identify a personal check, credit card, etc.) during a transaction, use this key after some numerical entries.
No sale key: Use this key to open the drawer without registering anything.

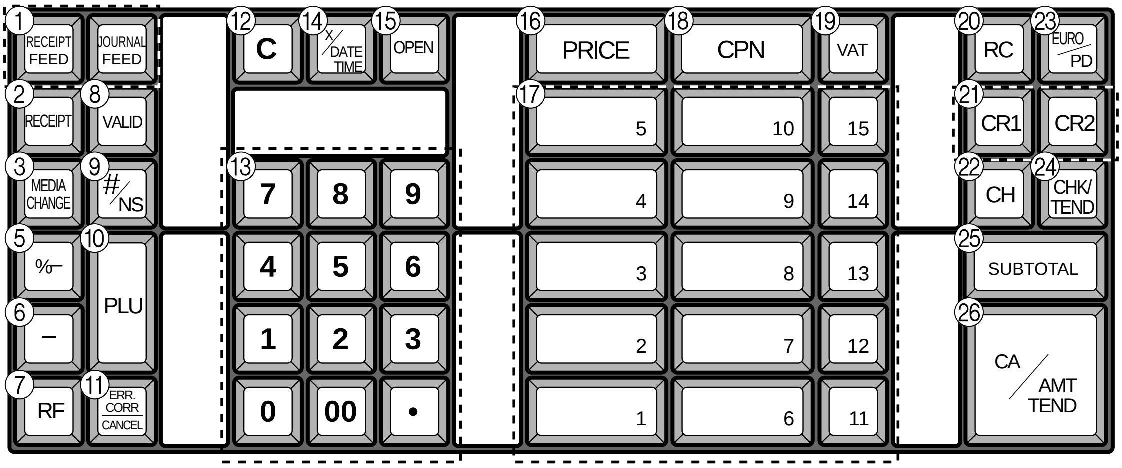
⑩ **PLU key** [PLU]
Use this key to input PLU numbers.

⑪ **Error correction/Cancellation key** [ERR CORR. CANCEL]
Use this key to correct registration errors and to cancel registration of entire transactions.

⑫ **Clear key** [C]
Use this key to clear an entry that has not yet been registered.

⑬ **Ten key pad** [0], [1] ~ [9], [00], [·]
Use these keys to input numbers.

⑭ **Multiplication/Date/Time key** [X/DATE TIME]
Use this key to input a quantity for a multiplication operation. Between transactions, this key displays the current time and date.



for other area

⑮ **Open key** OPEN
This key releases maximum amount limit or low digit limit for an amount which exceeds the limit.

⑯ **Price key** PRICE
Use this key to register an amount to an open PLU when a PLU is used as an open PLU.

⑰ **Department keys** 1, 2, 3 ~ 15
Use these keys to register items to departments.

⑱ **Coupon key** CPN
Use this key to register coupon. The registered coupon amount is deducted from the department, PLU, gross and net totalizers.

⑲ **VAT key** VAT
Use this key to print a VAT breakdown.

⑳ **Received on account key** RC
Press this key following a numeric entry to register money received for non-sale transactions.

㉑ **Credit key** CR1, CR2
Use this key to register a credit sale.

㉒ **Charge key** CH
Use this key to register a charge sale.

㉓ **Euro/Paid out key** EURO/PD
Euro key: Use this key to convert the main currency to the sub currency (the euro/the local money), when registering a subtotal amount. This key is also used for specifying sub currency while entering an amount of payment or declaration in drawers.
Paid out key: Use this key following a numeric entry to register money paid out from the drawer.

㉔ **Check key** CHK/TEND
Use this key to register a check tender.

㉕ **Subtotal key** SUB TOTAL
Use this key to display and print the current subtotal (includes add-on tax) amount.

㉖ **Cash/Amount tendered key** CA/AMT TEND
Use this key to register a cash tender.

How to read the printouts

- The journal and receipts are records of all transactions and operations.
- The contents printed on receipts and journal are almost identical.
- You can choose the journal skip function (page 57).
  If the journal skip function is selected, the cash register will print the total amount of each transaction, and the details of premium, discount and reduction operations only, without printing department and PLU item registrations on the journal.
- The following items can be skipped on receipts and journal.
  - Consecutive number
  - Taxable status
  - Taxable amount
  - Item counter

Receipt Sample

```
************************
    * THANK YOU *
**    CALL AGAIN    **           — Logo message
************************

*  COMMERCIAL MESSAGE  *
*  COMMERCIAL MESSAGE  *         — Commercial message
*  COMMERCIAL MESSAGE  *
*  COMMERCIAL MESSAGE  *

REG  03-04-2000 11:58            — Mode/Date/Time
C01     MC#01     000123         — Clerk/Machine No.
                                   Consecutive No.
 1 DEPT01     T1     •1.00       — Q'ty/Item
 1 DEPT02     T1     •2.00
 5 DEPT03            •5.00
            7 No                 — Item counter
   TA1               •3.00
   TX1               •0.15
   TL          •8.15
   CASH             •10.00
   CG                •1.85

***  BOTTOM MESSAGE  ***
***  BOTTOM MESSAGE  ***         — Bottom message
***  BOTTOM MESSAGE  ***
***  BOTTOM MESSAGE  ***
```

Journal Sample (Item lines Included)

```
REG  03-04-2000 11:58
C01     MC#01     000123
 1 DEPT01     T1     •1.00
 1 DEPT02     T1     •2.00
 5 DEPT03            •5.00
            7 No
   TA1               •3.00
   TX1               •0.15
   TL          •8.15
   CASH             •10.00
   CG                •1.85
REG  03-04-2000 11:59
C02     MC#01     000124
 1 DEPT01     T1     •1.00
 1 DEPT03     T1     •3.00
 1 DEPT02     T1     •2.00
 1 DEPT04     T1     •4.00
 5 DEPT05            •5.00
            9 No
   TA1              •10.00
   TX1               •0.50
   TL         •15.50
   CASH             •20.00
   CG                •4.50
```

Journal Sample (Item lines Skipped)

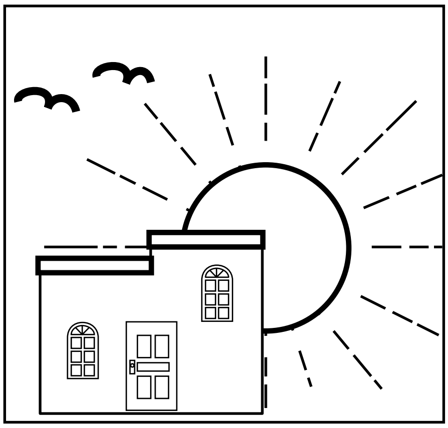
```
REG  03-04-2000 11:57
C01     MC#01     000123
            7 No
   TA1               •3.00
   TX1               •0.15
   TL          •8.15
   CASH             •10.00
   CG                •1.85
REG  03-04-2000 11:57
C02     MC#01     000124
            9 No
   TA1              •10.00
   TX1               •0.50
   TL         •15.50
   CASH             •20.00
   CG                •4.50
REG  03-04-2000 11:58
C01     MC#01     000125
            7 No
   TA1               •3.00
   TX1               •0.15
   TL          •9.35
   CASH             •10.00
   CG                •0.65
REG  03-04-2000 11:59
```

In the operation examples contained in this manual, the print samples are what would be produced if the roll paper is being used for receipts. They are not actual size. Actual receipts are 45 mm wide. Also, all sample receipts and journals are printout images.

How to use your cash register

The following describes the general procedure you should use in order to get the most out of your cash register.

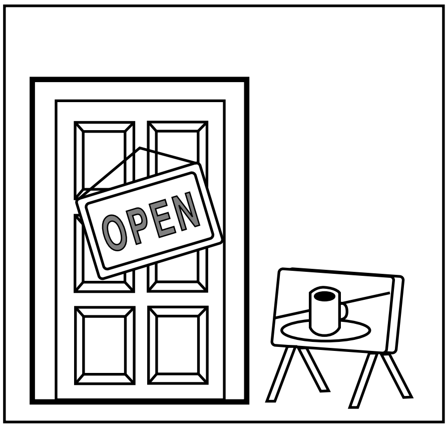
BEFORE business hours…



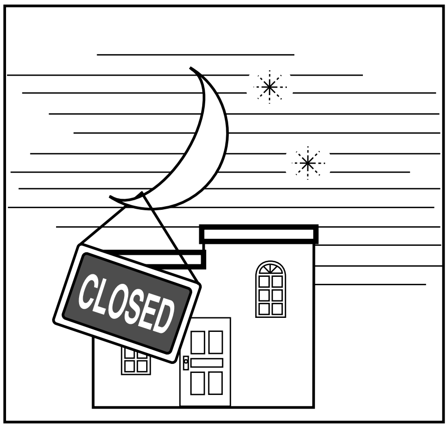
- Check to make sure that the cash register is plugged in securely. Page 9
- Check to make sure there is enough paper left on the roll. Pages 10, 11
- Read the financial totals to confirm that they are all zero. Page 83
- Check the date and time. Page 26

DURING business hours…

- Register transactions. Page 27
- Periodically read totals. Page 82



AFTER business hours…



- Reset the daily totals. Page 45
- Remove the journal. Page 98
- Empty the cash drawer and leave it open. Page 18
- Take the cash and journal to the office.

Displaying the time and date

REG
Mode switch

You can show the time or date on the display of the cash register whenever there is no registration being made.

To display and clear the time

OPERATION	DISPLAY
[X/DATE TIME] Time appears on the display	08-30. Hour Minutes
[C] Clears the time display	0.00

To display and clear the date

OPERATION	DISPLAY
[X/DATE TIME]	08-31. (Time is displayed first)
[X/DATE TIME] Date appears on the display	03-04-2000 Day Month Year
[C] Clears the date display	0.00

Preparing coins for change

REG
Mode switch

You can use the following procedure to open the drawer without registering an item. This operation must be performed out of a sale.
(You can use the [RC] key instead of the [#/NS] key. See page 44.)

Opening the drawer without a sale

OPERATION	RECEIPT
[#/NS]	REG 03-04-2000 10:00 C01 MC#01 000001 #/NS ·········

Preparing and using department keys

Registering department keys

REG
Mode switch

The following examples show how you can use the department keys in various types of registrations.

Single item sale

Example 1

OPERATION **RECEIPT**

Item	Unit price	$1.00
	Quantity	1
	Dept.	1
Payment	Cash	$1.00

Operation:

1 00 — Unit price
1 — Department
CA/AMT TEND

Receipt:

```
REG  03-04-2000 10:05      — Date/time
C01      MC#01    000002   — Mode/consecutive No.

 1 DEPT01          •1.00   — Department No./unit price
   TL             •1.00    — Total amount
   CASH            •1.00
```

Example 2 (Subtotal registration and change computation)

OPERATION **RECEIPT**

Item	Unit price	$12.34
	Quantity	1
	Dept.	1
Payment	**Cash**	**$20.00**

Operation:

1 2 3 4 — Unit price
1 — Department
SUB TOTAL
2 0 00 CA/AMT TEND — Amount tendered

Receipt:

```
REG  03-04-2000 10:10
C01      MC#01    000003

 1 DEPT01          •12.34
   TL            •12.34    — Total amount
   CASH            •20.00  — Amount tendered
   CG               •7.66  — Change
```

Repeat

OPERATION **RECEIPT**

Item	Unit price	$1.50
	Quantity	**3**
	Dept.	1
Payment	Cash	$10.00

Operation:

1 5 0 1
1
1
SUB TOTAL
1 0 00 CA/AMT TEND

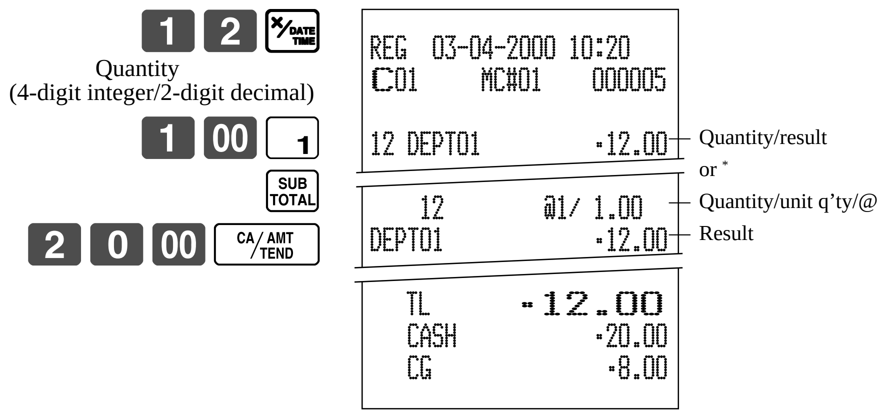
Receipt:

```
REG  03-04-2000 10:15
C01      MC#01    000004

 1 DEPT01           •1.50
 1 DEPT01           •1.50  — Repeat
 1 DEPT01           •1.50  — Repeat
   TL              •4.50
   CASH            •10.00
   CG               •5.50
```

Multiplication

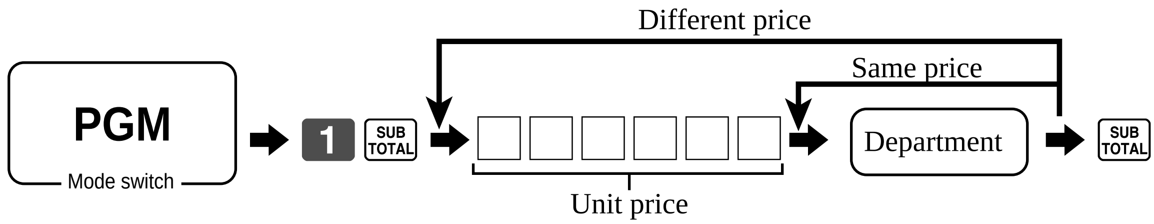
Item	Unit price	$1.00
	Quantity	**12**
	Dept.	1
Payment	Cash	$20.00



* See address 0522 of the general function program.

Programming department keys

To program a unit price for each department

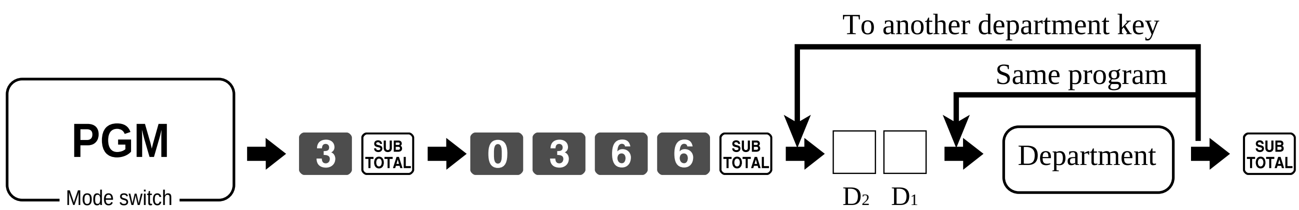


To program the tax calculation status for each department

Tax calculation status

This specification defines which tax table should be used for automatic tax calculation. See page 13 for information on setting up the tax tables.

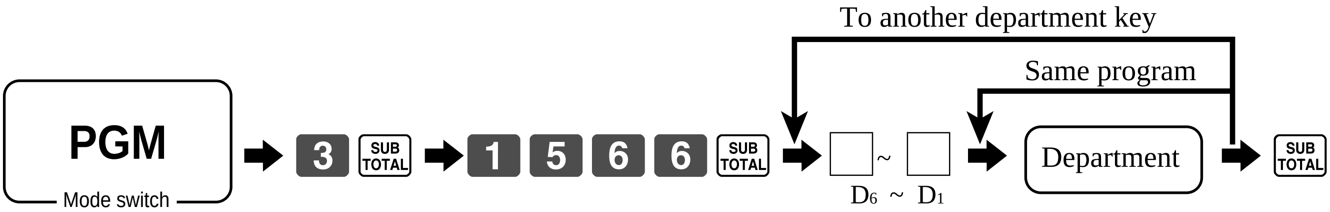
Programming procedure



for Singapore			
Always "0"			0 (D_2)
Taxable 1 status	a	Yes = 1 No = 0	(a+b+c) (D_1)
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0 Taxable 1 = 1 Taxable 2 = 2 Taxable 3 = 3 Taxable 4 = 4 Taxable 5 = 5 Taxable 6 = 6 Taxable 7 = 7 Taxable 8 = 8 Taxable 9 = 9 Taxable 10 = 10		Significant numbers	D_2 D_1

To program high amount limit for each department

Programming procedure



Description	Choice	Program code
High amount limit for entering unit price manually.	Significant numbers	D_6 D_5 ~ D_2 D_1

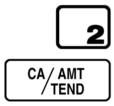
Registering department keys by programming data

REG
Mode switch

Preset price

OPERATION **RECEIPT**

Item	Unit price	($1.00)preset
	Quantity	1
	Dept.	2
Payment	Cash	$1.00




```
REG  03-04-2000 10:25
C01     MC#01    000006

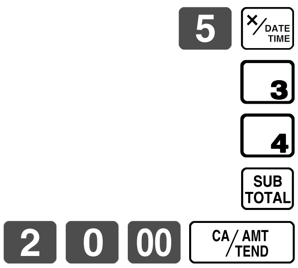
 1 DEPT02        •1.00
   TL           •1.00
   CASH          •1.00
```

Department No./unit price

Preset tax status

OPERATION **RECEIPT**

Item 1	Unit price	($2.00)preset
	Quantity	5
	Dept.	3
	Taxable	**(1)preset**
Item 2	Unit price	($2.00)preset
	Quantity	1
	Dept.	4
	Taxable	**(2)preset**
Payment	Cash	$20.00




```
REG  03-04-2000 10:30
C01     MC#01    000007

 5 DEPT03    T1   •10.00
 1 DEPT04    T2    •2.00
   TA1            •10.00
   TX1             •0.40
   TA2             •2.00
   TX2             •0.20
   TL            •12.60
   CASH           •20.00
   CG              •7.40
```

Tax status
Taxable Amount 1
Tax 1
Taxable Amount 2
Tax 2

Locking out high amount limitation

Item	Unit price	$1.05
	Quantity	1
	Dept.	3
	Max.amount	($10.00) preset
Payment	Cash	$2.00

OPERATION

1 0 5 0 [3]

ERROR ALARM (E037)
(Exceeding high amount)

[C]

1 0 5 [3]

[SUB TOTAL]

2 00 [CA/AMT TEND]

RECEIPT

```
REG  03-04-2000 10:35
C01     MC#01    000008

 1 DEPT03         •1.05
   TL            •1.05
   CASH           •2.00
   CG             •0.95
```

Preparing and using PLUs

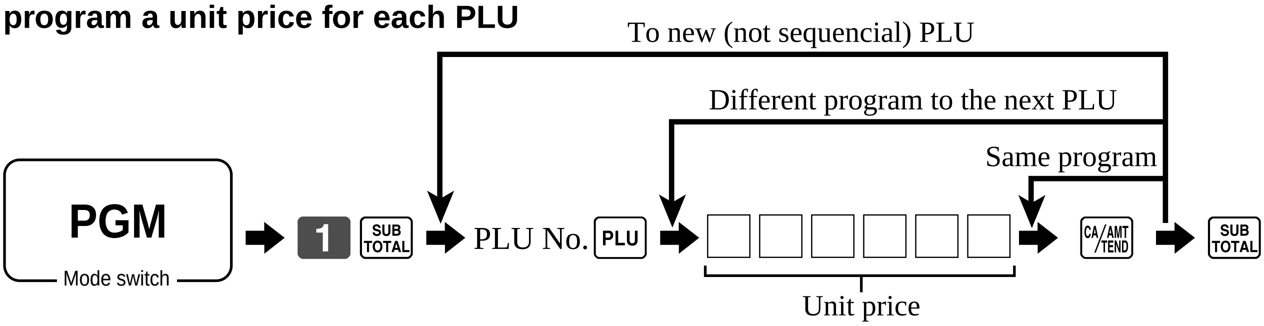
This section describes how to prepare and use PLUs.

CAUTION:

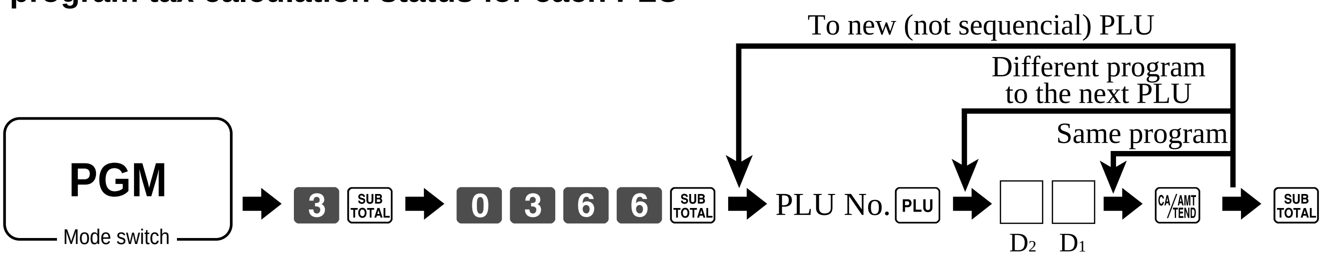
- Before you use PLUs, you must first program the unit price.

Programming PLUs

To program a unit price for each PLU



To program tax calculation status for each PLU



for Singapore			
Always "0"			0 D2
Taxable 1 status	a	Yes = 1 No = 0	(a+b+c) D1
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0 Taxable 1 = 1 Taxable 2 = 2 Taxable 3 = 3 Taxable 4 = 4 Taxable 5 = 5 Taxable 6 = 6 Taxable 7 = 7 Taxable 8 = 8 Taxable 9 = 9 Taxable 10 = 10		Significant numbers	D2 D1

Registering PLUs

REG
Mode switch

The following examples show how you can use PLUs in various types of registrations.

PLU single item sale

Item	Unit price	($2.50)preset
	Quantity	1
	PLU	**14**
Payment	Cash	$3.00

OPERATION

1 4 (PLU code)
PLU
SUB TOTAL
3 00 CA/AMT TEND

RECEIPT

```
REG  03-04-2000 10:40
C01     MC#01    000009

 1 PLU0014        •2.50   — PLU No./unit price
   TL          •2.50
   CASH           •3.00
   CG             •0.50
```

PLU repeat

Item	Unit price	($2.50)preset
	Quantity	**3**
	PLU	14
Payment	Cash	$10.00

OPERATION

1 4 PLU
PLU
PLU
SUB TOTAL
1 0 00 CA/AMT TEND

RECEIPT

```
REG  03-04-2000 10:45
C01     MC#01    000010

 1 PLU0014        •2.50
 1 PLU0014        •2.50
 1 PLU0014        •2.50
   TL          •7.50
   CASH          •10.00
   CG             •2.50
```

PLU multiplication

Item	Unit price	($2.00)preset
	Quantity	**10**
	PLU	7
Payment	Cash	$20.00

OPERATION

1 0 X/DATE TIME
Quantity
(4-digit integer/2-digit decimal)
7 PLU
SUB TOTAL
2 0 00 CA/AMT TEND

RECEIPT

```
REG  03-04-2000 10:50
C01     MC#01    000011

10 PLU0007       •20.00   — Quantity/result
                            or *
    10       @1/ 2.00     — Quantity/unit q'ty/@
PLU0007          •20.00   — Result

   TL         •20.00
   CASH          •20.00
   CG             •0.00
```

* See address 0522 of the general function program.

Printing VAT breakdowns

REG
Mode switch

The following example shows how to get VAT breakdown.
Any time you press the VAT key in a transaction, VAT breakdown is automatically printed out at the end of the transaction.

Example

Item	Dept. 3	$10.00
	Quantity	1
	Taxable	$(1)_{preset}$
Payment	Cash	$10.00

OPERATION

1 0 00 [1]
SUB TOTAL
VAT
1 0 00 CA/AMT TEND

RECEIPT

```
REG  03-04-2000 10:55
C01      MC#01    000012

 1 DEPT01     T1   •10.00
   TA1              •9.62
   TX1              •0.38
   TL            •10.00
   CASH            •10.00
   CG               •0.00
```

* In case of every receipt needs VAT breakdown lines,
select the finalize (CA/AMT TEND, CH, CR1, CR2, CHK/TEND) key status to “Invoice.” Refer to page 65.

Preparing and using discounts

This section describes how to prepare and register discounts.

Programming discounts

To program a rate to the %– key

PGM
Mode switch

→ 1 SUB TOTAL → □□□□ (Preset rate) → %– → SUB TOTAL

Example:

10% ⇨ 1 0
5.5% ⇨ 5 · 5
12.34% ⇨ 1 2 · 3 4

Registering discounts

REG
Mode switch

The following example shows how you can use the [%–] key in various types of registration.

Discount for items and subtotals

Item 1	Dept. 1	$5.00
	Quantity	1
	Taxable	(1)preset
Item 2	PLU 16	($10.00)preset
	Quantity	1
	Taxable	(2)preset
Discount	**Rate**	**(5%)preset**
Subtotal discount	**Rate**	**3.5%**
	Taxable	**Nontaxable**
Payment	Cash	$15.00

OPERATION

[5] [00] [1]
[1] [6] [PLU]
[%–]
Applies the preset discount rate to the last item registered.
[SUB TOTAL]
[3] [·] [5] [%–]
The input value takes priority of the preset value.
[SUB TOTAL]
[1] [5] [00] [CA/AMT TEND]

RECEIPT

```
REG  03-04-2000 11:00
C01     MC#01    000013

 1 DEPT01    T1     •5.00
 1 PLU0016   T2    •10.00
   5%
  %-               -0.50
  ST              •14.50
   3.5%
  %-         T2    -0.51
  TA1              •5.00
  TX1              •0.20
  TA2              •9.50
  TX2              •0.48
  TL         •14.67
  CASH            •15.00
  CG               •0.33
```

- You can manually input rates up to 4 digits long (0.01% to 99.99%).

Taxable status of the [%–] key

- Whenever you perform a discount operation on the last item registered, the tax calculation for discount amount is performed in accordance with the tax status programmed for that item.
- Whenever you perform a discount operation on a subtotal amount, the tax calculation for the subtotal amount is performed in accordance with the tax status programmed for the [%–] key (see page 67).

Preparing and using reductions

This section describes how to prepare and register reductions.

Programming for reductions

You can use the [–] key to reduce single item or subtotal amounts.

To program preset reduction amount

PGM (Mode switch) → [1] [SUB TOTAL] → [ ][ ][ ][ ][ ][ ] (Unit price) → [–] → [SUB TOTAL]

Registering reductions

REG
Mode switch

The following examples show how you can use the [−] key in various types of registration.

Reduction for items

OPERATION | RECEIPT

Item 1	Dept. 1	$5.00
	Quantity	1
	Taxable	(1)preset
Reduction	**Amount**	**$0.25**
Item 2	PLU 45	($6.00)preset
	Quantity	1
	Taxable	(1)preset
Reduction	**Amount**	**($0.50)preset**
Payment	Cash	$11.00

5 00 [1]
2 5 [−]
Reduces the last amount registered by the value input.
4 5 [PLU]
[−]
[SUB TOTAL]
1 1 00 [CA/AMT TEND]

```
REG  03-04-2000 11:05
C01     MC#01    000014

 1 DEPT01     T1    •5.00
   -          T1    -0.25
 1 PLU0045    T1    •6.00
   -          T1    -0.50
   TA1             •10.25
   TX1              •0.41
   TL          •10.66
   CASH            •11.00
   CG               •0.34
```

- You can manually input reduction values up to 7 digits long.
- If you want to subtract the reduction amount from the department or PLU totalizer, program "Net totaling for departments and PLUs" (refer to page 58).

Reduction for subtotal

OPERATION | RECEIPT

Item 1	Dept. 1	$3.00
	Quantity	1
	Taxable	(1)preset
Item 2	Dept. 2	$4.00
	Quantity	1
	Taxable	(2)preset
Subtotal Reduction	**Amount**	**$0.75**
	Taxable	**(No)preset**
Payment	Cash	$7.00

3 00 [1]
4 00 [2]
[SUB TOTAL]
7 5 [−]
Reduces the subtotal by the value input here.
[SUB TOTAL]
7 00 [CA/AMT TEND]

```
REG  03-04-2000 11:10
C01     MC#01    000015

 1 DEPT01     T1    •3.00
 1 DEPT02     T2    •4.00
   -                -0.75
   TA1              •3.00
   TX1              •0.12
   TA2              •4.00
   TX2              •0.20
   TL           •6.57
   CASH             •7.00
   CG               •0.43
```

Registering credit and check payments

REG
Mode switch

The following examples show how to register credits and payments by check.

Check

Item	Dept. 1	$11.00
	Quantity	1
Payment	**Check**	**$20.00**

OPERATION

1 1 00 [1]
[SUB TOTAL]
2 0 00 [CHK/TEND]

RECEIPT

```
REG  03-04-2000 11:15
C01     MC#01    000016

 1 DEPT01          •11.00
   TL        •11.00
   CHECK           •20.00
   CG               •9.00
```

Credit

Item	Dept. 4	$15.00
	Quantity	1
Reference	**Number**	**1234**
Payment	**Credit**	**$15.00**

OPERATION

1 5 00 [4]
[SUB TOTAL]
1 2 3 4 [#/NS]
[CR1]

RECEIPT

```
REG  03-04-2000 11:20
C01     MC#01    000017

 1 DEPT04          •15.00
   #/NS              1234 — Reference No.
   TL        •15.00
   CREDIT1         •15.00
```

Mixed tender (cash, credit and check)

Item	Dept. 4	$55.00
	Quantity	1
Payment	**Check**	**$30.00**
	Cash	**$5.00**
	Credit	**$20.00**

OPERATION

5 5 00 [4]
[SUB TOTAL]
3 0 00 [CHK/TEND]
5 00 [CA/AMT TEND]
[CR1]

RECEIPT

```
REG  03-04-2000 11:25
C01     MC#01    000018

 1 DEPT04          •55.00
   TL        •55.00
   CHECK           •30.00
   CASH             •5.00
   CREDIT1         •20.00
```

Preparing and registering the Euro

Basic programming for the Euro and its exchange rate

Before registering the Euro, you must define the main currency, and its exchange rate.
If you need to select cash drawer or some rounding specification, please refer to the page 62 for further program (command code "2922" in the general programming).

Description	Choice	Program code
Define the euro as the main currency.	Yes = 0 No = 1	D_{10}
Select rounding option: Round off = 0, Cut off = 1, Round up = 2	Significant number (0 ~ 2)	D_9
Exchange rate (within 6-digits)	Significant numbers	D_8 D_7 D_6 D_5 D_4 D_3
Decimal point position of exchange rate: Integer only = 0 1st decimal place = 1, 2nd decimal place = 2, 3rd decimal place = 3, 4th decimal place = 4, 5th decimal place = 5, 6th decimal place = 6 Example: (D_8 ~ D_2) 1Euro = 1.977DM; Set "001977" 1Euro = 1957.77319 Lit; Set "1957772"	Significant number (0 ~ 6)	D_2
Always "0"		0 D_1

PGM (Mode switch) → 3 SUB TOTAL → 2 8 2 2 SUB TOTAL → □ ------- □ → CA/AMT TEND → SUB TOTAL

D_{10} ------- D_1

Registering the Euro

REG (Mode switch)

The following example shows the basic operation using the currency exchange function.

(1) Case A

Main currency	Local
Payment	Euro
Change	Local
Rate	1 Euro = 0.5 FFr

(2) Case B

Main currency	Euro
Payment	Local
Change	Euro
Rate	1 Euro = 0.5 FFr

Case A

OPERATION		DISPLAY
6 0 0 [1]		
[EURO/PD] [SUB TOTAL]	Press the [EURO/PD] key, which converts the subtotal amount into the sub currency by applying the preset exchange rate. After you press the [SUB TOTAL] key, the result is shown on the display.	0.00E 12.00E
[EURO/PD] 1 5 00	Press the [EURO/PD] key if you enter the payment in the sub currency.	0.00E 15.00E
[CA/AMT TEND]	Press the [CA/AMT TEND] key to finalize the transaction. The change amount is shown in the programmed currency.	1.50

Case B

OPERATION		DISPLAY
1 2 00 [1]		
[EURO/PD] [SUB TOTAL]	Press the [EURO/PD] key, which converts the subtotal amount into the sub currency by applying the preset exchange rate. After you press the [SUB TOTAL] key, the result is shown on the display.	0.00L 6.00L
[EURO/PD] 6 00	Press the [EURO/PD] key if you enter the payment in the sub currency.	0.00L 6.00L
[CA/AMT TEND]	Press the [CA/AMT TEND] key to finalize the transaction. The change amount is shown in the programmed currency.	0.00

Printouts

CASE A

```
REG  03-04-2000 11:30
C01     MC#01    000019

 1 DEPT01          •6.00
   TL             •6.00
                 €12.00
EURO money
   CASH          €15.00
   CASH           •7.50
   CG             •1.50
```

CASE B

```
REG  03-04-2000 11:35
C01     MC#01    000020

 1 DEPT01         €12.00
   TL            €12.00
                  •6.00
LOCAL money
   CASH           •6.00
   CASH          €12.00
   CG             €0.00
```

Validation printing

REG
Mode switch

You can perform total amount validation following finalization using [CA/AMT TEND], [CH], [CHK/TEND], [CR1], [CR2] keys and [RC], [PD] keys. Also you can perform single item validation.

Total amount validation

Item	Dept. 1	$14.00
	Quantity	1
Payment	Check	$20.00
Validation		

OPERATION

1 4 00 [1]
[SUB TOTAL]
2 0 00 [CHK/TEND]

RECEIPT

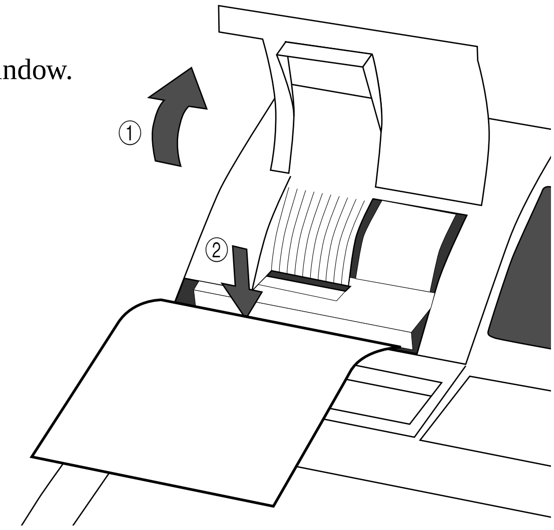
```
REG  03-04-2000 11:40
C01      MC#01    000021

 1 DEPT01         •14.00
   TL          •14.00
   CHECK          •20.00
   CG              •6.00
```

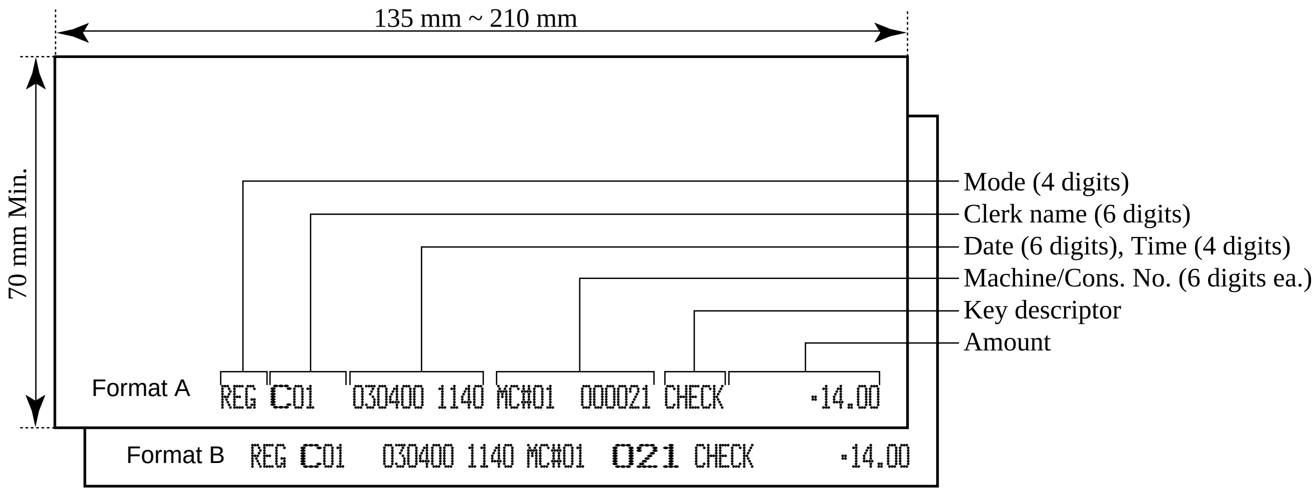
① Open the journal window.

② Insert paper.

③ Press [VALID].



Validation sample



Registering returned goods in the REG mode

REG
Mode switch

The following example shows how to use the RF key in the REG mode to register goods returned by customers.

Item 1	Dept. 1	$2.35
	Quantity	1
Item 2	Dept. 2	$2.00
	Quantity	1
Item 3	PLU 1	($1.20)preset
	Quantity	1
Returned Item 1	**Dept. 1**	**$2.35**
	Quantity	**1**
Returned Item 3	**PLU 1**	**($1.20)preset**
	Quantity	**1**
Payment	Cash	$2.00

OPERATION

2 3 5 [1]
2 00 [2]
1 [PLU]
[RF]
2 3 5 [1]
Press [RF] before the item you want to return.
[RF]
1 [PLU]
[SUB TOTAL]
[CA/AMT TEND]

RECEIPT

```
REG  03-04-2000 11:45
C01     MC#01    000022

 1 DEPT01          •2.35
 1 DEPT02          •2.00
 1 PLU0001         •1.20
   RF          •••••••••
 1 DEPT01          -2.35
   RF          •••••••••
 1 PLU0001         -1.20
   TL             •2.00
   CASH            •2.00
```

Registering returned goods in the RF mode

RF
Mode switch

The following examples show how to use the RF mode to register goods returned by customers.

Normal refund transaction

Returned Item 1	**Dept. 1**	**$1.50**
	Quantity	**2**
Returned Item 2	**PLU 2**	**($1.20)preset**
	Quantity	**6**
Payment	**Cash**	**$10.20**

OPERATION

1 5 0 [1]
[1]
6 [X/DATE TIME]
2 [PLU]
[CA/AMT TEND]

RECEIPT

RF mode symbol

```
RF  03-04-2000 11:50
C01     MC#01    000023

 1 DEPT01          •1.50
 1 DEPT01          •1.50
 6 PLU0002         •7.20
   TL            •10.20
   CASH           •10.20
```

Reduction of amounts paid on refund

OPERATION | RECEIPT

Returned Item 1	Dept. 3	$4.00
	Quantity	1
Reduction	Amount	$0.15
Returned Item 2	PLU 2	($1.20)preset
	Quantity	1
Discount	Rate	(5%)preset
Payment	Cash	$5.20

4 00 3
1 5 −
2 PLU
%−
SUB TOTAL
CA/AMT TEND

```
RF 03-04-2000 11:55
C01      MC#01    000024

 1 DEPT03     T1    •4.00
   -          T1    -0.15
 1 PLU0002    T2    •1.20
   5%
   %-         T2    -0.06
   TA1              •3.85
   TX1              •0.15
   TA2              •1.14
   TX2              •0.06
   TL              •5.20
   CASH             •5.20
```

Important!

• To avoid miss registrations in the RF mode, return the mode switch to the former position immediately.

Registering money received on account

REG
Mode switch

The following example shows how to register money received on account. This registration must be performed out of a sale.

OPERATION | RECEIPT

Received amount	$700.00

7 00 00 RC

Amount can be up to 8 digits.

```
REG  03-04-2000 12:00
C01      MC#01    000025

 RC               •700.00
```

Registering money paid out

REG
Mode switch

The following example shows how to register money paid out from the register. This registration must be performed out of a sale.

OPERATION | RECEIPT

Paid out amount	$1.50

1 5 0 PD

Amount can be up to 8 digits.

```
REG  03-04-2000 12:05
C01      MC#01    000026

 PD                 •1.50
```

Registering loan amounts

REG
Mode switch

Use this procedure to register loan or bank received from the office.

OPERATION **RECEIPT**

Item	Note	$1.00
	Quantity	10
	Note	$5.00
	Quantity	5
Media	Cash	$35.00

1 0 [X/DATE TIME]
1 00 [LOAN]
5 [X/DATE TIME]
5 00 [LOAN]
[CA/AMT TEND]

```
REG  03-04-2000 12:10
C01     MC#01    000027

  LOAN           •10.00
  LOAN           •25.00
  CASH           •35.00
```

Registering pick up amounts

REG
Mode switch

Use this procedure to register pick up money from cash drawer.

OPERATION **RECEIPT**

Item	Coin	$0.50
	Quantity	10
	Coin	$0.10
	Quantity	5
Media	Cash	$5.50

1 0 [X/DATE TIME]
5 0 [PICK UP]
5 [X/DATE TIME]
1 0 [PICK UP]
[CA/AMT TEND]

```
REG  03-04-2000 12:15
C01     MC#01    000028

  P.UP            •5.00
  P.UP            •0.50
  CASH            •5.50
```

Changing media in drawer

REG
Mode switch

Use this procedure to change media in drawer.

OPERATION **RECEIPT**

Media	Check	-10.00
	Cash	$8.00
	Charge	$2.00

[MEDIA CHANGE]
1 0 00 [CHK/TEND]
Enter the amount to be changed.
8 00 [CA/AMT TEND]
2 00 [CH]

```
REG  03-04-2000 12:20
C01     MC#01    000029

  MEDIA CHG   •••••••••
  CHECK          •10.00
  CASH            •8.00
  CH              •2.00
```

Basic Operations and Setups

Making corrections in a registration

REG
Mode switch

There are three techniques you can use to make corrections in a registration.

- To correct an item that you input but not yet registered.
- To correct the last item you input and registered.
- To cancel all items in a transaction.

To correct an item you input but not yet registered

OPERATION

Key operation	
2 00	Correction of unit price
C	
1 00 1	
1 2 ×/DATE TIME	Correction of quantity
C	
1 1 ×/DATE TIME	
2 00 2	
2	Correction of PLU No.
C	
3 PLU	
1 5 PLU	Correction of open PLU unit price
6 00	
C	
1 5 PLU (Enter PLU No. again.)	
1 0 00 PRICE	
SUB TOTAL	
1 0 00	Correction of partial tender amount
C	
1 5 00 CA/AMT TEND	
CR1	

RECEIPT

```
REG  03-04-2000 12:25
C01      MC#01    000030

 1 DEPT01          •1.00
11 DEPT02         •22.00
 1 PLU0003         •1.30
 1 PLU0015        •10.00
   TL           •34.30
   CASH           •15.00
   CREDIT1        •19.30
```

To correct an item you input and registered

OPERATION		RECEIPT

OPERATION

1 00 [DEPT 1]
2 00 [DEPT 2]

[DEPT 2] [ERR CORR./CANCEL] — Clearance

2 [PLU] [ERR CORR./CANCEL] 5 [PLU] — Correction of PLU No.

1 5 [PLU] 6 00 [PRICE] [ERR CORR./CANCEL] 1 5 [PLU] 1 0 00 [PRICE] — Correction of open PLU unit price

8 [X/DATE TIME] 4 00 [DEPT 4] [ERR CORR./CANCEL] 6 [X/DATE TIME] 4 00 [DEPT 4] — Correction of quantity

[SUB TOTAL] 5 0 [%–] [ERR CORR./CANCEL] [SUB TOTAL] 5 [%–] — Correction of discount

[RF] 2 00 [DEPT 2] [ERR CORR./CANCEL] [RF] 2 2 0 [DEPT 2] — Correction of refund item

[SUB TOTAL]

2 0 00 [CA/AMT TEND] [ERR CORR./CANCEL] 1 5 00 [CA/AMT TEND] — Correction of partial tender

[CR1]

RECEIPT

```
REG  03-04-2000 12:30
C01      MC#01     000031

 1 DEPT01           •1.00
 1 DEPT02           •2.00
 1 DEPT02           •2.00
   CORR             -2.00
 1 PLU0002          •1.20
   CORR             -1.20
 1 PLU0005          •1.50
 1 PLU0015          •6.00
   CORR             -6.00
 1 PLU0015         •10.00
 8 DEPT04          •32.00
   CORR            -32.00
 6 DEPT04          •24.00
   ST              •38.50
   50%
   %-              -19.25
   CORR            •19.25
   ST              •38.50
    5%
   %-               -1.93
   RF           .........
 1 DEPT02           -2.00
   CORR             •2.00
   RF           .........
 1 DEPT02           -2.20
   TL            •34.37
   CASH            •20.00
   CORR            -20.00
   CASH            •15.00
   CREDIT1         •19.37
```

To cancel all items in a transaction

OPERATION	RECEIPT
1 00 [1] 2 00 [2] 3 00 [3] 4 00 [4] [SUB TOTAL] Pressing [SUB TOTAL] key is necessary to cancel the transaction. [ERR CORR. CANCEL]	REG 03-04-2000 12:35 C01 MC#01 000032 1 DEPT01 -1.00 1 DEPT02 -2.00 1 DEPT03 -3.00 1 DEPT04 -4.00 CANCEL ·········

No sale registration

REG
Mode switch

You can use the following procedure to open the drawer without registering a sale. This operation must be performed out of a sale.

OPERATION	RECEIPT
[#/NS]	REG 03-04-2000 12:40 C01 MC#01 000033 #/NS ·········

Printing the daily sales reset report

This report shows daily sales totals.

OPERATION | **REPORT**

Z1
Mode switch

↓

CA/AMT TEND

Receipt	
Z 03-04-2000 12:45	Date/time
C01 MC#01 000035	Clerk name/mc No./consecutive No.

Z BATCH01	Report title

Z FIX 0001	Fixed total report title/reset counter
0001011	Report code
GROSS 981.25 •6,574.40	Gross total *2
NET No 111 •7,057.14	Net total *2
CAID •1,919.04	Cash in drawer *2
CHID •139.04	Charge in drawer *2
CKID •859.85	Check in drawer *2
CRID(1) •709.85	Credit in drawer *2

RF No 3 •10.22	Refund mode *2
CUST CT 111	Number of customer *2

TA1 •2,369.69	Taxable 1 amount *2
TX1 •128.86	Tax 1 amount *2
TA2 •2,172.96	Taxable 2 amount *2
TX2 •217.33	Tax 2 amount *2

GT1 •00000000125478.96	Grand total 1 *2
GT2 •00000000346284.23	Grand total 2 *2
GT3 •00000000123212.75	Grand total 3 *2

Z TRANS 0001	Function key report title/reset counter
0001012	Report code
CASH No 362 •1,638.04	Function key count/amount *1
CHARGE No 56 •1,174.85	
RC No 4 •810.00	
PD No 5 •520.00	

Receipt (continued)	
•5.00	
CORR No 14 •39.55	
VLD No 19	
RCT No 3	
NS No 5	

Z DEPT 0001	Department report title/reset counter
0001015	Report code
DEPT01 203.25 •1,108.54	Department count/amount *1
DEPT02 183 •1,362.26	
DEPT15 5 •17.22	

TL 421.25 •2,872.28	Department total count/total amount

Z CASHIER 0001	Clerk report title/reset counter
0001017	Report code
C01 1	Clerk name/drawer No. *1
GROSS 421.25 •2,872.28	Gross total *1
NET No 111 •1,845.35	Net total *1
CAID •1,057.14	Cash in drawer *1
CHID •139.04	
C02 1	Clerk name/drawer No.

*1 Zero totalled departments/functions/clerks are not printed by programming.
*2 These items can be skipped by programming.

Basic Operations and Setups

This chapter describes more sophisticated operations that you can use to suit the needs of your retail environment.

Clerk interrupt function

There are two types of clerk interrupt function, illustrated by PROCEDURE 1 and PROCEDURE 2 below.

• In PROCEDURE 1, each clerk possesses a unique clerk interrupt buffer, and so the clerk interrupt function gives each individual clerk the ability to perform an independent registration operation. In this case, each clerk is individually linked to a unique clerk interrupt buffer.

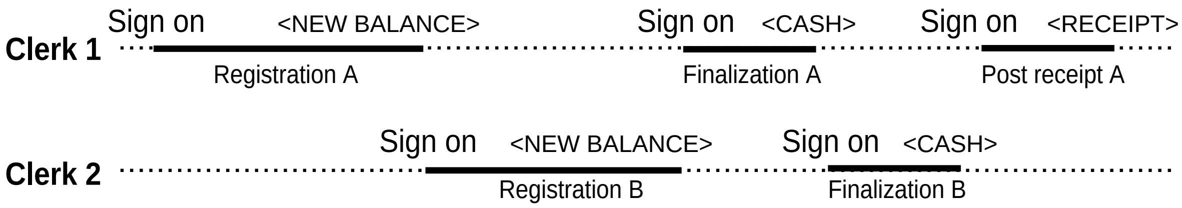
• In PROCEDURE 2, multiple clerks use the same clerk interrupt buffer, and so a single clerk interrupt operation (clerk change during registration) can be performed any registration is in progress.
In this case, multiple clerks are linked to a single clerk interrupt buffer.

Note the following important points concerning the clerk interrupt function.

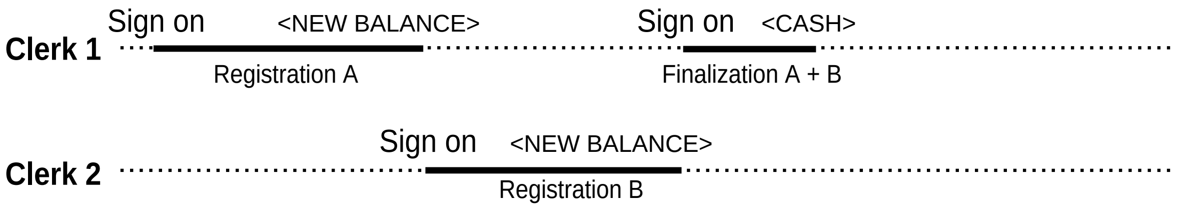
1. The register must be programmed to allow the clerk interrupt function.
2. To use the clerk interrupt function, a clerk interrupt buffer must be allocated with the memory allocation operation. Next the manager control operation (X1 mode) should be used to perform clerk assignment for the clerk interrupt function. The clerk interrupt operation cannot be performed by clerks who are not linked to a clerk interrupt buffer.

In the REG1, REG2, and RF modes, clerks can be changed while a transaction is in progress, making it possible for multiple clerks to simultaneously perform registrations in the same mode using a single register. For example, if clerk 1 is interrupted while registering a transaction, clerk 2 can use the same machine to register a different transaction. Then clerk 1 can continue the original registration from the point where it was interrupted.

PROCEDURE 1



PROCEDURE 2



NOTES

- A guest receipt can be issued following clerk change, and receipts can be issued separately for each clerk.
- A cancel operation can be performed during registration by either of the clerks. When clerk 1 signs back on (after being interrupted by clerk 2), the cancel operation cancels only the items registered after signing back on (only this receipt) or from the top of the transaction. This is selectable by the key program.

Single item cash sales

A department key or PLU programmed with single item sale status finalizes the transaction as soon as it is registered.
The single item sales function cannot work properly if the keyboard does not include <CASH> (the cash key).
The single item sales function can only be used for cash sales.

Example 1

OPERATION **RECEIPT**

Item	Dept. 1	$1.00
	Quantity	1
	Status	**S.I.S**
Payment	Cash	$1.00

1 00 [1]

The transaction is immediately finalized.

```
REG  03-04-2000 13:00      — Mode/date/time
C01     MC#01    000050    — Clerk/consecutive No.

 1 DEPT01          •1.00   — Department No./unit price
   TL            •1.00     — Total amount
   CASH            •1.00
```

Example 2

OPERATION **RECEIPT**

Item	Dept. 1	($1.00)
	Quantity	3
	Status	**S.I.S**
Payment	Cash	$3.00

3 [X/DATE TIME]
[1]

The transaction is immediately finalized.

```
REG  03-04-2000 13:05
C01     MC#01    000051

 3 DEPT01          •3.00
   TL            •3.00
   CASH            •3.00
```

Example 3

OPERATION **RECEIPT**

Item 1	Dept. 3	$2.00
	Quantity	1
	Status	Normal
Item 2	Dept. 1	($1.00)
	Quantity	1
	Status	**S.I.S**
Payment	Cash	$3.00

2 00 [3]
[1]

The transaction is not finalized. Because another item is registered before the single item sales department.

[CA/AMT TEND]

```
REG  03-04-2000 13:10
C01     MC#01    000052

 1 DEPT03          •2.00
 1 DEPT01          •1.00
   TL            •3.00
   CASH            •3.00
```

Addition

Addition (plus)

Example

Item 1	Dept. 1	$1.00
	Quantity	1
	Addition	**$0.10**
Item 2	Dept. 1	$2.00
	Quantity	3
	Addition	**3 × ($0.20)**
Payment	Cash	$7.70

OPERATION

1 00 1
1 0 +
3 X/DATE TIME
2 00 1
3 X/DATE TIME
+
CA/AMT TEND

RECEIPT

```
REG  03-04-2000 13:15
C01     MC#01    000053

 1 DEPT01          •1.00
   +               •0.10
 3 DEPT01          •6.00
   +               •0.60
   TL             •7.70
   CASH            •7.70
```

Premium (%+)

Example

Item 1	Dept. 1	$1.00
	Quantity	1
	Premium	**10%**
Item 2	Dept. 1	$2.00
	Quantity	3
Subtotal	**Premium**	**(15%)**
Payment	Cash	$8.17

OPERATION

1 00 1
1 0 %+
3 X/DATE TIME
2 00 1
SUB TOTAL
%+
CA/AMT TEND

RECEIPT

```
REG  03-04-2000 13:20
C01     MC#01    000054

 1 DEPT01          •1.00
   10%
   %+              •0.10
 3 DEPT01          •6.00
   ST              •7.10
   15%
   %+              •1.07
   TL             •8.17
   CASH            •8.17
```

Coupon transactions

Note that errors result when the result of a calculation is negative if the cash register is programmed to prohibit credit balances.

Coupon registration using <COUPON> (coupon key)

Example

Item 1	Dept. 1	$3.00
	Quantity	2
	Coupon	**$0.50 × 2**
Item 2	Dept. 3	$4.00
	Quantity	1
	Coupon	**($1.00)**
Payment	Cash	$8.00

OPERATION

2 [X/DATE TIME]
3 00 [1]
2 [X/DATE TIME]
5 0 [CPN]
4 00 [3]
[CPN]
[CA/AMT TEND]

RECEIPT

```
REG  03-04-2000 13:25
C01     MC#01    000055

 2 DEPT01         •6.00
   CPN           -1.00
 1 DEPT03         •4.00
   CPN           -1.00
   TL           •8.00
   CASH           •8.00
```

Coupon registration using <COUPON2> (coupon 2 key)

Example

Item 1	Dept. 1	$15.00
	Quantity	1
	Coupon 2 Dept. 1	**$1.50**
Item 2	PLU 10	$5.00
	Quantity	1
	Coupon 2 PLU 50	**($0.50)**
Payment	Cash	$18.00

OPERATION

1 5 00 [1]
[CPN2] 1 5 0 [1]
1 0 [PLU]
[CPN2] 5 0 [PLU]
[CA/AMT TEND]

RECEIPT

```
REG  03-04-2000 13:30
C01     MC#01    000056

 1 DEPT01        •15.00
   CPN2        *********
 1 DEPT01        -1.50
 1 PLU0010        •5.00
   CPN2        *********
 1 PLU0050        -0.50
   TL          •18.00
   CASH          •18.00
```

Arrangement key registrations

Key operations can be assigned to an <ARRANGE> (arrangement key). Then, simply pressing <ARRANGE> performs all of the key functions assigned to it.
Key operations can also be assigned to an address code. Then, when you input the address code using <ARRANGE>, all of the key functions assigned to the address code are performed.

Example 1

Arrangement 1		
Item 1	PLU 1	($8.00)
	Quantity	1
Item 2	PLU 2	($5.00)
	Quantity	1
Payment	Cash	$13.00

OPERATION

[ARR]

RECEIPT

```
REG  03-04-2000 13:35
C01      MC#01    000057

 1 PLU0001         •8.00
 1 PLU0002         •5.00
   TL          •13.00
   CASH           •13.00
```

Example 2

Arrangement 5		
Item 1	Dept. 1	$1.00
	Quantity	1
Item 2	Dept. 2	$2.00
	Quantity	1
Payment	Cash	$3.00

OPERATION

[5] [ARR]

RECEIPT

```
REG  03-04-2000 13:40
C01      MC#01    000058

 1 DEPT01          •1.00
 1 DEPT02          •2.00
   TL           •3.00
   CASH            •3.00
```

Arrangement programming

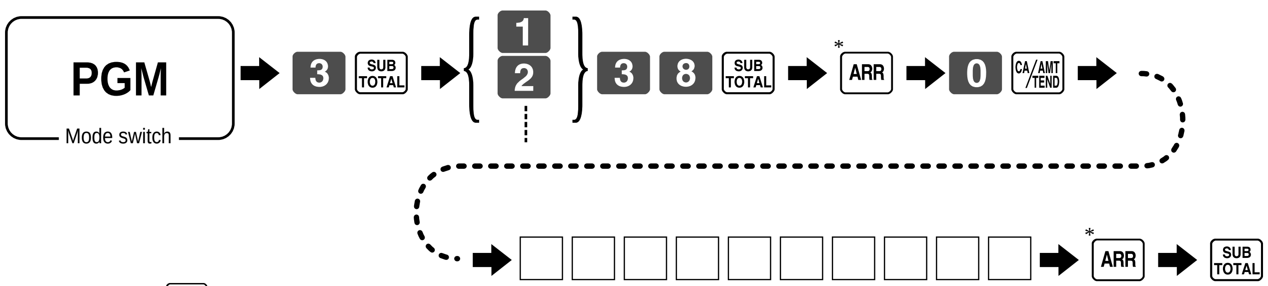
Arrangement key allocation

Please refer to page 80.

Attribution of <ARRANGEMENT> programming

Please refer to page 69.

The operation in <ARRANGEMENT> programming



* The same [ARR] should be pressed.

Currency exchange function

When <CE> (currency exchange key) is pressed, a current subtotal including tax is converted directly into foreign currency and the result is displayed, and the subsequent finalization is handled using the foreign currency. The currency exchange function is released by finalizing a transaction, partial tender operation, receipt issuance, or by pressing <SUBTOTAL>.
Before using the currency exchange function, it is necessary to program the conversion rate.

Registering foreign currency

Full amount tender in foreign currency

* Pre-programmed exchange rate: ¥ 100 = $0.9524

Important!

Tenders in a foreign currency can be registered using [CA/AMT TEND] and [CHK/TEND] only. Other finalize keys cannot be used.

OPERATION		DISPLAY
1 0 00 [1]	Enter the unit price and press the applicable department key.	01 10.00 (Displays in $)
2 0 00 [2]	Enter the next unit price and press the applicable department key.	02 20.00 (Displays in $)
[CE] [SUB TOTAL]	Press [CE] and [SUB TOTAL] without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a pre-programmed exchange rate. The result is shown on the display and printed on the receipt/journal by programming.	3.150 (Displays in ¥: 3,150)
5 0 00 [CE] (5,000)	Enter the amount tendered in yen and press [CE]. This operation converts the entered yen amount into dollars by applying a pre-programmed exchange rate. The result is shown on the display.	5.000
[CA/AMT TEND]	Press to finalize the transaction. Note that you do not need to reenter the dollar amount. The register automatically calculates the change amount due in dollars and shows it on the display, receipts and journal.	17.62 (Displays in $)

RECEIPT

```
REG  03-04-2000 13:45
C01      MC#01    000059

 1 DEPT01          •10.00
 2 DEPT02          •20.00
   TL          •30.00
   CE
   CASH            ¥5,000
   CASH            •47.62
   CG              •17.62
```

Partial tender in a foreign currency

* Pre-programmed exchange rate: ¥ 100 = $0.9524

Important!

Partial tender in a foreign currency can be registered using [CA/AMT TEND] and [CHK/TEND] only. Other finalization keys cannot be used, but the remaining tender can be finalized using any finalize key.

OPERATION		DISPLAY
[1] [0] [00] [1]	Enter the unit price and press the applicable department key.	01 10.00 (Displays in $)
[2] [0] [00] [2]	Enter the next unit price and press the applicable department key.	02 20.00 (Displays in $)
[CE] [SUB TOTAL]	Press [CE] and [SUB TOTAL] without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a pre-programmed exchange rate. The result is shown on the display and printed on the receipt/journal by programming.	3.150 (Displays in ¥: 3,150)
[2] [0] [00] [CE] (2,000)	Enter the partial amount tendered in yen and press [CE]. This operation converts the entered yen amount into dollars by applying a pre-programmed exchange rate. The result is shown on the display.	2.000
[CA/AMT TEND]	Press [CA/AMT TEND] to specify cash tender for the yen partial tender. Note that you do not need to reenter the dollar amount. The register automatically deducts the dollar equivalent of the yen amount tendered from the total amount due and shows the amount on the display.	10.95 (Displays in $)
[CHK/TEND]	Press to finalize the transaction.	10.95 (Displays in $)

RECEIPT

```
REG  03-04-2000 13:50
C01      MC#01    000060

 1 DEPT01         •10.00
 1 DEPT02         •20.00
   TL            •30.00
   CE
   CASH           ¥2,000
   CASH           •19.05
   CHECK          •10.95
```

Currency exchange programming

Currency exchange key allocation

Please refer to page 80.

Attribution of <CURRENCY EXCHANGE> programming

Please refer to page 69.

Exchange rate programming

PGM (Mode switch) → 1 SUB TOTAL → □□□□ · □□□□ → CE → SUB TOTAL

Integer (Max. 4-digit) · Decimal (Max. 4-digit) — Preset rate

Example:

$1.00 = ¥110.50 ⇨ 1 · 1 0 5

¥100 = $0.9050 ⇨ 0 · 9 0 5

Temporarily releasing compulsion

<OPEN 2> (open 2 key) can be programmed to release specific compulsion.

Example 1

Item	Unit price	$10.00
	Dept.	1
Payment	Check	$10.00
Validation compulsory		

OPERATION

1 0 00 [1]

1 0 00 [CHK/TEND]

2 00 [2]

Validation compulsory (E041)

[OPEN 2] Validation compulsory is temporarily released.

RECEIPT

```
REG  03-04-2000 13:55
C01     MC#01    000061

 1 DEPT01        •10.00
   TL        •10.00
   CHECK         •10.00
   CG             •0.00
```

Example 2

Input customer No. compulsory		
Item	Unit price	$10.00
	Dept.	1
Payment	Check	$10.00

OPERATION

1 0 00 [1]

Input customer No. compulsory (E019)

[OPEN 2]

Compulsory is temporarily released.

1 0 00 [1]

1 0 00 [CHK/TEND]

RECEIPT

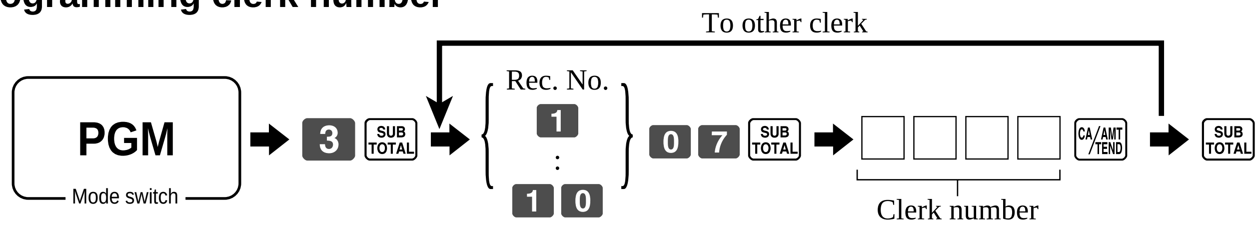
```
REG  03-04-2000 14:00
C01     MC#01    000062

 1 DEPT01        •10.00
   TL        •10.00
   CHECK         •10.00
   CG             •0.00
```

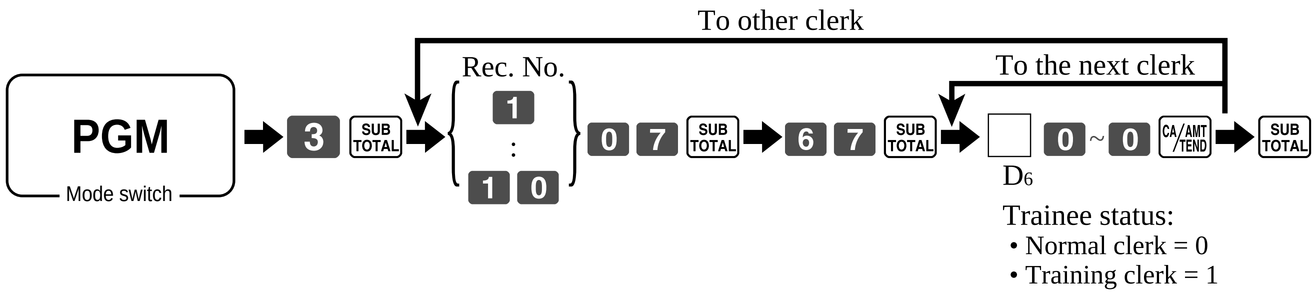
Programming to clerk

You can program up to 4-digit assigning number (clerk number), trainee status of clerk (i.e. training cashier) and commission rate for each clerk.

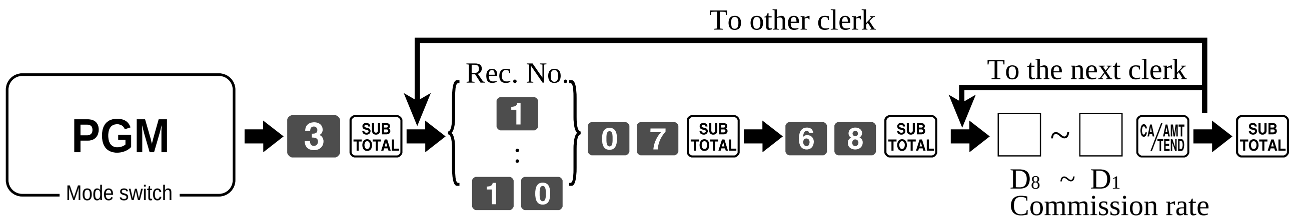
Programming clerk number



Programming trainee status



Programming commission rate



Record No.	Clerk number				Trainee status		Commission rate							
							Commission rate 1				Commission rate 2			
							Integer		Decimal		Integer		Decimal	
	D_4	D_3	D_2	D_1	D_6	00000	D_8	D_7	D_6	D_5	D_4	D_3	D_2	D_1
1						00000								
2						00000								
3						00000								
4						00000								
5						00000								
6						00000								
7						00000								
8						00000								
9						00000								
10						00000								

Programming machine features

You can program several machine features by the general control file.

Programming to general control file

PGM (Mode switch) → 3 SUB TOTAL → □□ 2 2 SUB TOTAL → □□ ~ □□ CA/AMT TEND → SUB TOTAL

(□□: Address code; □□ ~ □□: Program data)

Address code 0122

Description	Choice	Program code
Date order Year/Month/Day = 0, 1 Day/Month/Year = 2, Month/Day/Year = 3	Significant number (0 ~ 3)	D_{10}
Monetary mode 0 = 0, 0.0 = 1, 0.00 = 2, 0.000 = 3	Significant number (0 ~ 3)	D_9
Password in Manager mode		D_8 D_7 D_6 D_5
Password in X2/Z2 mode		D_4 D_3 D_2 D_1

Address code 0222

Description	Choice	Program code
Password in PGM1/PGM2 mode	Significant numbers	D_{10} D_9 D_8 D_7
Always "0"		0 0 D_6 D_5
Always "0"		0 0 0 0 D_4 D_3 D_2 D_1

Address code 0322

Description	Choice	Program code
Reset consecutive number after daily fixed total reset report is issued.	Yes = 1 No = 0	D_8
Always "0"		0 D_7
Consecutive number start value		D_6 D_5 D_4 D_3 D_2 D_1

Address code 0422

Description		Choice	Program code
Apply rounding for multiplication, discount and premium. No rounding = 0, IF1 = 1, IF2 = 2, Danish = 3 Norwegian = 4, Singaporean = 5		Signigficant number (0 ~ 5)	□ D_{10}
Tax system VAT system = 0, Singaporean tax system = 3		Signigficant number (0 ~ 3)	□ D_9
Receipt on/off Controlled by receipt on/off switch/key = 0 Always on (issue) = 1, Always off (not issue) = 2		Signigficant number (0 ~ 2)	□ D_8
Allow amount tender in RF/REG– mode operation.	a	Yes = 0 No = 2	□ (a+b) D_7
Cash drawer opening: ①Immediately when the transaction is finalized. ②After validation compulsory is released.	b	① = 0 ② = 4	
Always “0”			0 D_6
Rounding of results produced by departments and PLUs programmed with package prices and package quantities		Round off = 0 Cut off = 1 Round up = 2	□ D_5
High amount limit specification for cash in drawer amount. (Sentinel function)		Maximum value (0 ~ 9) Number or zeros (0 ~ 9)	□ □ D_4 D_3
Printing of clerk/cashier name on receipt following sign back on following clerk/cashier interrupt operation.		No = 0 Yes = 4	□ D_2
Enable clerk/cashier interrupt		No = 0 Yes = 1	□ D_1

Rounding

IF 1 rounding		**Danish rounding**	
Last 1 digit of subtotal	Result	Last 2 digits of subtotal/change	Result
0 ~ 2	0	00 ~ 12	00
3 ~ 7	5	13 ~ 37	25
8 ~ 9	10	38 ~ 62	50
IF 2 rounding		63 ~ 87	75
Last 1 digit of subtotal	Result	88 ~ 99	100
0 ~ 4	0	**Norwegian rounding**	
5 ~ 9	10	Last 1 digit of subtotal	Result
Singaporean rounding		00 ~ 24	00
Last 1 digit of tax	Result	25 ~ 74	50
0 ~ 2	0	75 ~ 99	100
3 ~ 7	5		
8 ~ 9	10		

Address code 0522

Description		Choice	Program code
Print total line during finalization.	a	Yes = 0 No = 1	□ (a+b+c) D_{10}
Time system: ① 24 hour system, ② 12 hour system	b	① = 0 ② = 2	
Feed one line after issuing receipt.	c	No = 0 Yes = 4	
Print consecutive number by double sized letter (up to 3 digits).	a	No = 0 Yes = 1	□ (a+b) D_9
Buffered receipt print	b	No = 0 Yes = 2	
Skip item lines on journal. (journal skip)	a	No = 0 Yes = 1	□ (a+b) D_8
Break-down set menu printing on receipt, post receipt, guest receipt.	b	No = 0 Yes = 4	
Always “0”			0 0 0 D_7 D_6 D_5
Print number of item sold.	a	No = 0 Yes = 1	□ (a+b) D_4
Print tax symbols.	b	Yes = 0 No = 2	
Always “0”			0 D_3
Print multiplication or item consolidation in one line.		Yes = 0 No = 4	□ D_2
Print [C] operation.	a	No = 0 Yes = 1	□ (a+b+c) D_1
Print number of customers on header.	b	Yes = 0 No = 2	
Print PLU number on receipt.	c	No = 0 Yes = 4	

Address code 0622

Description		Choice	Program code
Follow the taxable status and commission status of +/– to the previous item.	a	Yes = 0 No = 1	□ (a+b+c) D_{10}
Force to register rate tax before finalization.	b	No = 0 Yes = 2	
Force a money declaration before read/reset operation.	c	No = 0 Yes = 4	
Force to press [SUB TOTAL] before finalization	a	No = 0 Yes = 1	□ (a+b+c) D_9
Allow credit balance while finalization.	b	Yes = 0 No = 2	
Allow multiple refund/register minus operation.	c	Yes = 0 No = 4	
Affect the result of +/–, %+/%– to the item. (Net totaling)	a	No = 0 Yes = 1	□ (a+b) D_8
Include add-on tax in net total	b	Yes = 0 No = 2	
Include commission in net total.	a	Yes = 0 No = 2	□ (a+b) D_7
Treatment of department key numenric inputs: ① Treat as amount override ② Treat as quantity extensions	b	① = 0 ② = 4	
Clear the key buffer when a receipt is issued.	a	No = 0 Yes = 1	□ (a+b+c) D_6
Sounds key catch tone.	b	Yes = 0 No = 2	
Allow to issue post receipt, even if the original one is issued.	c	No = 0 Yes = 4	
Allow program 1 programming in the manager control mode (X1 mode).	a	No = 0 Yes = 1	□ (a+b+c) D_5
Display “seconds” during time display.	b	No = 0 Yes = 2	
Connect slit drawer.	c	No = 0 Yes = 4	
RF mode status		RF = 0 REG– = 1	□ D_4
Allow one registration of +/–, %+/%– per one transaction.		No = 0 Yes = 4	□ D_3
Round on the least significant digit of %+/%– registration.	a	No = 0 Yes = 1	□ (a+b) D_2
Display separator.	b	Yes = 0 No = 2	
Allow numeric entry while compulsory drawer opening.	a	Yes = 0 No = 2	□ (a+b) D_1
PLU numbering: ① By memory No. (sequencial), ② By random code	b	① = 0 ② = 4	

Address code 1022

Description		Choice	Program code
Print taxable amount 1 on receipt/journal.	a	Yes = 0 No = 1	□ (a+b+c) D_{10}
Print taxable amount 2 on receipt/journal.	b	Yes = 0 No = 2	
Print taxable amount 3 on receipt/journal.	c	Yes = 0 No = 4	
Print taxable amount 4 on receipt/journal.	a	Yes = 0 No = 1	□ (a+b+c) D_9
Print taxable amount 5 on receipt/journal.	b	Yes = 0 No = 2	
Print taxable amount 6 on receipt/journal.	c	Yes = 0 No = 4	
Print taxable amount 7 on receipt/journal.	a	Yes = 0 No = 1	□ (a+b+c) D_8
Print taxable amount 8 on receipt/journal.	b	Yes = 0 No = 2	
Print taxable amount 9 on receipt/journal.	c	Yes = 0 No = 4	
Print taxable amount 10 on receipt/journal.		Yes = 0 No = 1	□ D_7
Always "0"			0 0 D_6 D_5
Till timer (00 ~ 59 minutes)		Significant numbers	□□ D_4 D_3
Till timer (00 ~ 59 seconds)		Significant numbers	□□ D_2 D_1

Address code 1422

Description		Choice	Program code
Monetary mode of foreign currency 1:		Significant number (0 ~ 9)	□ D_8
Decimal for foreign currency 1: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	□ (a+b) D_7
Separator for foreign currency 1: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	
Monetary mode of foreign currency 2:		Significant number (0 ~ 9)	□ D_6
Decimal for foreign currency 2: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	□ (a+b) D_5
Separator for foreign currency 2: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	
Monetary mode of foreign currency 3:		Significant number (0 ~ 9)	□ D_4
Decimal for foreign currency 3: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	□ (a+b) D_3
Separator for foreign currency 3: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	
Monetary mode of foreign currency 4:		Significant number (0 ~ 9)	□ D_2
Decimal for foreign currency 4: ① Period = 0, ② Comma = 1	a	① = 0 ② = 1	□ (a+b) D_1
Separator for foreign currency 4: ① Comma = 0, ② Period = 1	b	① = 0 ② = 4	

Address code 1722

Description		Choice	Program code
Money declaration compulsory (cash) in REG/RF mode	a	No = 0 Yes = 1	□ (a+b+c) D_{10}
Money declaration compulsory (charge) in REG/RF mode	b	No = 0 Yes = 2	
Money declaration compulsory (check) in REG/RF mode	c	No = 0 Yes = 4	
Money declaration compulsory (credit) in REG/RF mode		No = 0 Yes = 1	□ D_9
Always “0”			0 D_8
Include VAT amount in commission subtotal.	a	No = 0 Yes = 1	□ (a+b) D_7
Whenever pressing <PLUS> or <MINUS>, the amount registered is proportioned among all taxable amounts.	b	No = 0 Yes = 2	
Rounding of commission: Round off = 0, Cut off = 1, Round up = 2		Significant number (0 ~ 2)	□ D_6
Append two zeros in unit price programming.		No = 0 Yes = 1	□ D_5
Print date on receipt.	a	Yes = 0 No = 1	□ (a+b+c) D_4
Print date on journal.	b	Yes = 0 No = 2	
Print consecutive number on receipt/journal.	c	Yes = 0 No = 4	
Print time on receipt.	a	Yes = 0 No = 1	□ (a+b+c) D_3
Print time on journal.	b	Yes = 0 No = 2	
Merge the same department/PLU registration on buffered receipt and post receipt. (Item consolidation)	c	Yes = 0 No = 4	
Always “0”			0 0 D_2 D_1

Address code 2122

Description		Choice	Program code
Print logo message on receipt. (If select "No", logo stamp is used.)		No = 0 Yes = 1	□ D_{10}
Print commercial message on guest receipt.	a	No = 0 Yes = 1	□ (a+b+c) D_9
Print bottom message on guest receipt.	b	No = 0 Yes = 2	
Print intermediate message on guest receipt.	c	No = 0 Yes = 4	
Print bill top message.	a	No = 0 Yes = 1	□ (a+b+c) D_8
Print bill copy message.	b	No = 0 Yes = 2	
Print bill bottom message.	c	No = 0 Yes = 4	
Always "0"			0 D_7
Print commercial message on receipts in REG/RF mode.	a	No = 0 Yes = 1	□ (a+b+c) D_6
Print bottom message on receipts in REG/RF mode.	b	No = 0 Yes = 2	
Print commercial message on journal in REG/RF mode.	c	No = 0 Yes = 4	
Print bottom message on journal in REG/RF mode.	a	No = 0 Yes = 1	□ (a+b+c) D_5
Print commercial message on receipts in X/Z mode.	b	No = 0 Yes = 2	
Print bottom message on receipts in X/Z mode.	c	No = 0 Yes = 4	
Print commercial message on journal in X/Z mode.	a	No = 0 Yes = 1	□ (a+b+c) D_4
Print bottom message on journal in X/Z mode.	b	No = 0 Yes = 2	
Print commercial message on receipt in PGM mode.	c	No = 0 Yes = 4	
Print bottom message on receipt in PGM mode.	a	No = 0 Yes = 1	□ (a+b+c) D_3
Print commercial message on journal in PGM mode.	b	No = 0 Yes = 2	
Print bottom message on journal in PGM mode.	c	No = 0 Yes = 4	
Print commercial message on FC or AUTO-PGM receipts.	a	No = 0 Yes = 1	□ (a+b+c) D_2
Print bottom message on FC or AUTO-PGM receipts.	b	No = 0 Yes = 2	
Print commercial message on FC or AUTO-PGM journal.	c	No = 0 Yes = 4	
Print bottom message on FC or AUTO-PGM journal.		No = 0 Yes = 1	□ D_1

Address code 2922

Description		Choice	Program code
Monetary mode of sub currency: 0 = 0, 0.0 = 1, 0.00 = 2, 0.000 = 3		Significant number (0 ~ 3)	□ D_{10}
Apply rounding for sub currency. No rounding = 0, IF1 = 1, IF2 = 2, Danish = 3 Norwegian = 4, Singaporean = 5		Signigficant number (0 ~ 5)	□ D_9
Cash drawer number of sub currency: 0 ~ 2 ("0" means main drawer.)		Signigficant number	□ D_8
Selection of the currency of subtotal printout: ① Main currency only, ② Main and sub currency		① = 0 ② = 2	□ D_7
Selection of the currency of change: ① Main currency, ② Sub currency	a	① = 0 ② = 1	□ (a+b+c) D_6
Print the cash in drawer of sub currency on reports.	b	No = 0 Yes = 2	
Display symbol of sub currency: ① E, ② L	c	① = 0 ② = 4	
The currency to restrict (to 00, 25, 50, 75) on last two digits for amount tendered: ① Main currency, ② Sub currency	a	① = 0 ② = 1	□ (a+b+c) D_5
Print rounding total of sub currency on fix total report.	b	No = 0 Yes = 2	
Last 1 digit for sub currency monetary amount entries to 0 or 5.	c	No = 0 Yes = 4	
Always "0"			0 0 0 0 D_4 D_3 D_2 D_1

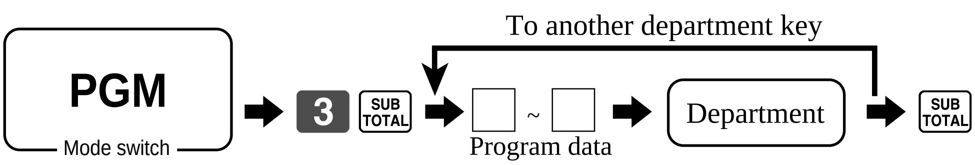
* IF 1, IF 2, Danish, Norwegian and Singaporean rounding, refer to page 56.

Programming department/PLU

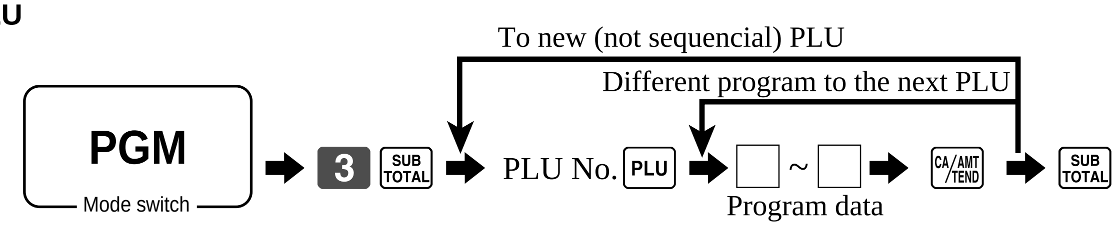
There are two ways to program to department/PLU, batch feature programming and individual feature programming.

Batch feature programming to department/PLU

• Department



• PLU



• Program data

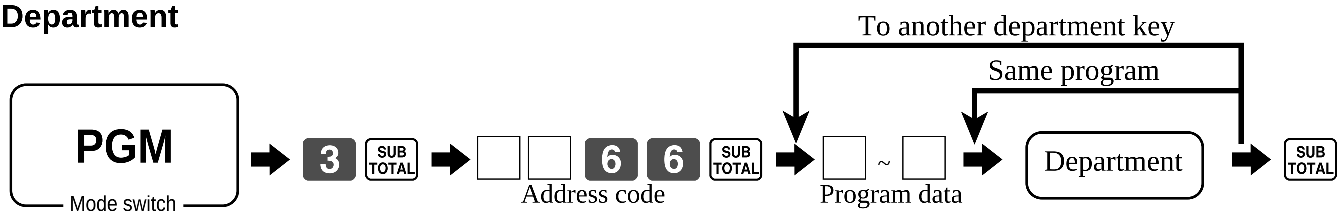
Description		Choice	Program code
Single item control: Normal receipt = 0, Single item receipt = 3		Significant number	□ D_{12}
Always “0”			0 D_{11}
Normal/condiment/preparation Normal item = 0, Condiment = 1, Preparation = 2		Significant number	□ D_{10}
Enable operation in RF/REG– mode.	a	Yes = 0 No = 1	□ (a+b+c) D_9
Enable operation in REG 2 mode.	b	Yes = 0 No = 2	
Enable operation in REG 1 mode.	c	Yes = 0 No = 4	
Taxable status: See below.			□□ D_8 D_7
Enable 0 unit price.	a	No = 0 Yes = 1	□ (a+b+c) D_6
Enable negative price.	b	No = 0 Yes = 2	
Hash	c	No = 0 Yes = 4	
Always “0”			0 D_5
Low digit limitation (LDL) for manually entered unit price.		Significant number	□ D_4
Multiple validation: (If “No”, only one validation is possible.)	a	Yes = 0 No = 1	□ (a+b) D_3
Open PLU (Only effective for PLU)	b	No = 0 Yes = 4	
Commission 1	a	No = 0 Yes = 1	□ (a+b) D_2
Commission 2	b	No = 0 Yes = 2	
Compulsory number of condiment/preparation PLU input.		Significant number (0 ~ 8)	□ D_1

Taxable status

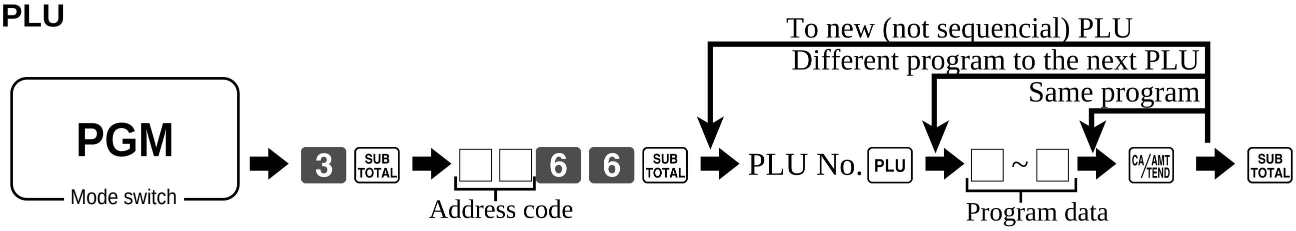
for Singapore			
Always “0”			0 D_8
Taxable 1 status	a	Yes = 1 No = 0	□ (a+b+c) D_7
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0 Taxable 1 = 1 Taxable 2 = 2 Taxable 3 = 3 Taxable 4 = 4 Taxable 5 = 5 Taxable 6 = 6 Taxable 7 = 7 Taxable 8 = 8 Taxable 9 = 9 Taxable 10 = 10		Significant numbers	□□ D_8 D_7

Individual feature programming to department/PLU

• Department



• PLU



• Program data

Address code 1166

Description	Choice	Program code
Link group record number: (00 ~ 15)	Significant numbers	□□ D_6 D_5
Link depatment record number: (00 ~ 15) (for PLU)	Significant numbers	□□ D_4 D_3
Always “0”		0 0 D_2 D_1

Address code 1266

Description	Choice	Program code
PLU random code (only for PLU)	Significant numbers	□□~□□ D_6 D_5 ~ D_2 D_1

Address code 1366

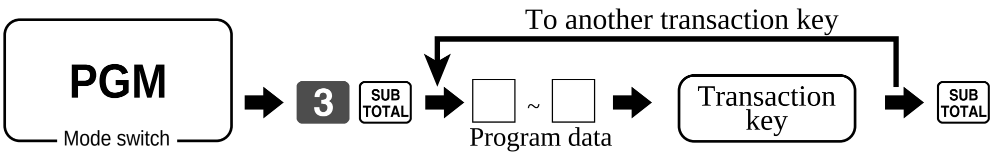
Description	Choice	Program code
Set menu table record number (only for PLU)	Significant numbers	□□□□ D_6 D_5 D_4 D_3
Set menu table file number (only for PLU) Always “28”		2 8 D_2 D_1

Address code 1566

Description	Choice	Program code
High amount limit for entering unit price manually.	Significant numbers	□□~□□ D_6 D_5 ~ D_2 D_1

Programming to transaction keys

Procedure



Data

<CASH>, <CHARGE>, <CHECK>

Description		Choice	Program code
Allowable number of validation printing (“0” means no limitation) *1 *2 *3 *4		Significant number (0 ~ 9)	□ D_{11}
Force validation operation. *1 *2 *3 *4	a	No = 0 Yes = 1	□ (a+b) D_{10}
Restriction (to 00, 25, 50, 75) on last two digits for amount tendered (Only for <CASH> in Danish rounding) *4	b	No = 0 Yes = 4	
Disable operation in RF/REG– mode. *3 *4	a	No = 0 Yes = 1	□ (a+b+c) D_9
Disable operation in REG2 mode. *3 *4	b	No = 0 Yes = 2	
Disable operation in REG1 mode. *3 *4	c	No = 0 Yes = 4	
Always “0”			0 D_8
Prohibit entry of a partial payment	a	No = 0 Yes = 1	□ (a+b+c) D_7
Prohibit the entry of the amount tendered.	b	No = 0 Yes = 2	
Force entry of the amount tendered.	c	No = 0 Yes = 4	
Print VAT breakdown. *1 *3	a	No = 0 Yes = 1	□ (a+b+c) D_6
Check cashing commission (Only for <CHECK>) *2 ① Use an amount ② Use a rate	b	Amount = 0 Rate = 2	
Validation amount *2 *3 ① Print subtotal amount ② Print amount tendered	c	Subtotal = 0 Tender = 4	
Always “0”			0 D_5
High amount limit specification for subtotal and tendering amounts. *2		Maximum value (0 ~ 9)	□□ D_4 D_3
		Number of zeros (0 ~ 9)	
High amount limit specification for change amount due.		Maximum value (0 ~ 9)	□□ D_2 D_1
		Number of zeros (0 ~ 9)	

*1 Those are valid options for SINGLE ITEM as well.
*2 Those are valid options for CASHING A CHECK as well.
*3 Those are valid options for CURRENCY EXCHANGE (include partial tender) as well.
*4 Those are valid options for MEDIA CHANGE (include partial tender) as well.

<CREDIT>

Description		Choice	Program code
Allowable number of validation printing ("0" means no limitation) *1		Significant number (0 ~ 9)	□ D_{11}
Force validation operation. *1		No = 0 Yes = 1	□ D_{10}
Disable operation in RF/REG– mode. *1	a	No = 0 Yes = 1	□ (a+b+c) D_9
Disable operation in REG2 mode. *1	b	No = 0 Yes = 2	
Disable operation in REG1 mode. *1	c	No = 0 Yes = 4	
Always "0"			0 D_8
Prohibit entry of a partial payment	a	No = 0 Yes = 1	□ (a+b+c) D_7
Prohibit the entry of the amount tendered.	b	No = 0 Yes = 2	
Force entry of the amount tendered.	c	No = 0 Yes = 4	
Print VAT breakdown.	a	No = 0 Yes = 1	□ (a+b) D_6
Validation amount ① Print subtotal amount ② Print amount tendered	b	Subtotal = 0 Tender = 4	
Always "0"			0 D_5
High amount limit specification for subtotal and tendering amounts.		Maximum value (0 ~ 9)	□□ D_4 D_3
		Number of zeros (0 ~ 9)	
Always "0"			0 D_2
Specify credit in drawer total in the fixed totalizer. *1		Significant number (0 ~ 4)	□ D_1

*1 Those are valid options for MEDIA CHANGE (include partial tender) as well.

<RECEIVED ON ACCOUNT>, <PAID OUT>

Description		Choice	Program code
Allowable number of validation printing ("0" means no limitation)		Significant number (0 ~ 9)	□ D_{11}
Force validation operation.		No = 0 Yes = 1	□ D_{10}
Disable operation in RF/REG– mode.	a	No = 0 Yes = 1	□ (a+b+c) D_9
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always "0"			0 ~ 0 D_8 ~ D_5
High amount limit specification for entering amounts		Maximum value (0 ~ 9)	□□ D_4 D_3
		Number of zeros (0 ~ 9)	
Always "0"			0 0 D_2 D_1

<#/NO SALE>

Description		Choice	Program code
Disable operation in RF/REG– mode.	a	No = 0 Yes = 1	□ (a+b+c) D_9
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always “0”			0 D_8
Allow mode change or clerk change after non-add registration as first transaction. (only for non-add function)		Yes = 1 No = 0	□ D_7
Always “0”			0 ~ 0 D_6 ~ D_1

<%+>, <%–>

Description		Choice	Program code
Multiple validation (If “No”, only one validation printing is possible.)		Yes = 0 No = 4	□ D_{11}
Always “0”			0 D_{10}
Disable operation in RF/REG– mode.	a	No = 0 Yes = 1	□ (a+b+c) D_9
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Taxable status: See below.			□□ D_8 D_7
Prohibit manual rate override.		No = 0 Yes = 2	□ D_6
Rounding: Round off = 0, cut off = 1, round up = 2		Significant number	□ D_5
Allow key operation after <SUBTOTAL>.	a	Yes = 0 No = 1	□ (a+b) D_4
Allow key operation after item registration.	b	Yes = 0 No = 4	
Always “0”			0 D_3
Commission status: Commission 1 = 1, Commission 2 = 2, None = 0		Significant number	□ D_2
Always “0”			0 D_1

Taxable status

for Singapore			
Always “0”			0 D_8
Taxable 1 status	a	Yes = 1 No = 0	□ (a+b+c) D_7
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	

for other area				
Non tax = 0 Taxable 1 = 1 Taxable 2 = 2 Taxable 3 = 3	Taxable 4 = 4 Taxable 5 = 5 Taxable 6 = 6 Taxable 7 = 7	Taxable 8 = 8 Taxable 9 = 9 Taxable 10 = 10 Alltaxable = 99	Significant numbers	□□ D_8 D_7

<+>, <–>, <COUPON>

Description		Choice	Program code
Multiple validation (If “No”, only one validation printing is possible.)		Yes = 0 No = 4	☐ D_{11}
Always “0”			0 D_{10}
Disable operation in RF/REG– mode.	a	No = 0 Yes = 1	☐ (a+b+c) D_9
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Taxable status: See below.			☐☐ D_8 D_7
Allow credit balance. (–, CPN only)		No = 0 Yes = 1	☐ D_6
Always “0”			0 D_5
Allow key operation after <SUBTOTAL>.	a	Yes = 0 No = 1	☐ (a+b) D_4
Allow key operation after item registration.	b	Yes = 0 No = 4	
High digit limitation (HDL) for manually entered unit price (“9” means NOT allow manual entry.)		Significant number	☐ D_3
Commission status: Commission 1 = 1, Commission 2 = 2, None = 0		Significant number	☐ D_2
Always “0”			0 D_1

Taxable status

for Singapore			
Always “0”			0 D_8
Taxable 1 status	a	Yes = 1 No = 0	☐ (a+b+c) D_7
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	

for other area				
Non tax = 0 Taxable 1 = 1 Taxable 2 = 2 Taxable 3 = 3	Taxable 4 = 4 Taxable 5 = 5 Taxable 6 = 6 Taxable 7 = 7	Taxable 8 = 8 Taxable 9 = 9 Taxable 10 = 10 Alltaxable = 99	Significant numbers	☐☐ D_8 D_7

<ARRANGEMENT>

Description		Choice	Program code
Secret code (0000 ~ 9999)		Yes = 0 No = 1	□□□□ D_{14} D_{13} D_{12} D_{11}
Enable operation in X1 mode.	a	Yes = 0 No = 1	□ (a+b+c) D_{10}
Enable operation in Z1 mode.	b	Yes = 0 No = 2	
Enable operation in X2/Z2 mode.	c	Yes = 0 No = 4	
Enable operation in RF/REG– mode.	a	Yes = 0 No = 1	□ (a+b+c) D_9
Enable operation in REG2 mode.	b	Yes = 0 No = 2	
Enable operation in REG1 mode.	c	Yes = 0 No = 4	
Always "0"			0 D_8
Treat numeric entry as arrange table number		No = 0 Yes = 1	□ D_7
Arrangement table link number		Significant numbers	□ ~ □ D_6 ~ D_1

<CURRENCY EXCHANGE>

Description		Choice	Program code
Disable operation in RF/REG– mode.	a	No = 0 Yes = 1	□ (a+b+c) D_9
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always "0"			0 D_8
Define amount symbol. (0, 1 ~ 4) ("0" means local currency symbol.)		Significant number	□ D_7
Define foreign currency totalizer. (0, 1 ~ 4) ("0" treats as "1".)		Significant number	□ D_6
Rounding: Round off = 0, cut off = 1, round up = 2		Significant number	□ D_5
Always "0"			0 D_4
Monetary mode (0 ~ 9): 0.00 = 2, 0.0 = 1, 0 = 0		Significant number	□ D_3
Monetary symbol for decimal	a	Decimal = 0 Comma = 1	□ (a+b) D_2
Monetary symbol for separator	b	Comma = 0 Decimal = 4	
Assigning drawer number: 0 ~ 2 ("0" means drawer 1.)		Significant number	□ D_1

<POST RECEIPT>

Description		Choice	Program code
Maximum number of post receipts (0 ~ 9) (“0” means 1 post receipt.)		Significant number	□ D_{12}
Always “0”			0 0 D_{11} D_{10}
Disable operation in RF/REG– mode.	a	No = 0 Yes = 1	□ (a+b+c) D_9
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always “0”			0 D_8
Print current time on guest receipt.		No = 0 Yes = 4	□ D_7
Clear finalized check.		Yes = 0 No = 1	□ D_6
Always “0”			0 0 0 D_5 D_4 D_3
Line number of guest bottom message (00 ~ 10): (“00” means no bottom message.)		Significant number	□□ D_2 D_1

<MULTIPLICATION>, <QUANTITY/FOR>, <SQUARE>, <CUBE>

Description		Choice	Program code
Disable operation in RF/REG– mode.	a	No = 0 Yes = 1	□ (a+b+c) D_9
Disable operation in REG2 mode.	b	No = 0 Yes = 2	
Disable operation in REG1 mode.	c	No = 0 Yes = 4	
Always “0”			0 0 D_8 D_7
Multiplication procedure: (<X> only) ① Quantity × Amount, ② Amount × Quantity		① = 0 ② = 1	□ D_6
Rounding: Round off = 0, cut off = 1, round up = 2		Significant number	□ D_5
Always “0”			0 ~ 0 D_4 ~ D_1

Character programming can be performed in two ways:
- **Character keyboard programming (see page 78),**

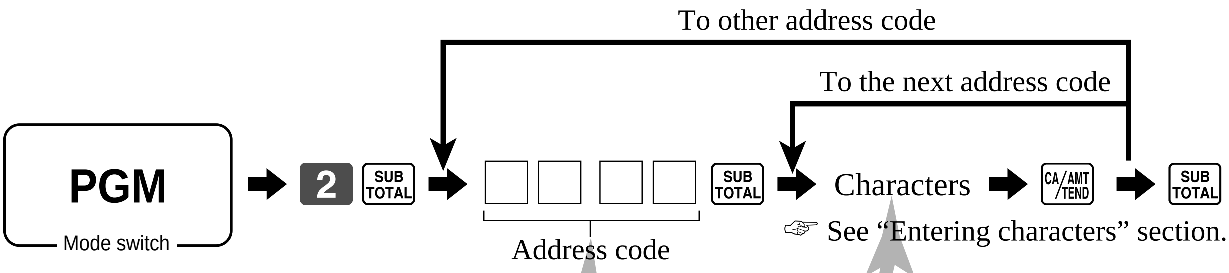
or
- **Entering characters by code (see page 79.)**

Programming descriptors and messages

The following descriptors and messages can be programmed;

- Clerk name
- Fix totalizer
- Special character
- PLU item descriptor
- Messages
- Report header
- Department key descriptor
- Machine number

Programming clerk name and messages



Clerk name

Address code	Contents	Initial character	Yours
0107	Clerk 01	C01	
0207	Clerk 02	C02	
0307	Clerk 03	C03	
0407	Clerk 04	C04	
0507	Clerk 05	C05	
0607	Clerk 06	C06	
0707	Clerk 07	C07	
0807	Clerk 08	C08	
0907	Clerk 09	C09	
1007	Clerk 10	C10	

Message

Address code	Contents	Initial character	Yours
0132	1st line of logo message	YOUR RECEIPT	
0232	2nd line of logo message	THANK YOU	
0332	3rd line of logo message	CALL AGAIN	
0432	4th line of logo message		
0532*	1st line of commercial message		
0632*	2nd line of commercial message		
0732*	3rd line of commercial message		
0832*	4th line of commercial message		
0932*	1st line of bottom message		
1032*	2nd line of bottom message		
1132*	3rd line of bottom message		
1232*	4th line of bottom message		
1332*	1st line of bill top message		
1432*	2nd line of bill top message		
1532*	3rd line of bill top message		
1632*	4th line of bill top message		
1732*	1st line of bill copy message		
1832*	2nd line of bill copy message		
1932*	3rd line of bill copy message		
2032*	4th line of bill copy message		
2132*	1st line of bill bottom message		
2232*	2nd line of bill bottom message		
2332*	3rd line of bill bottom message		
2432*	4th line of bill bottom message		
2532*	Post receipt message		
2632*	1st line of guest intermediate msg.		
2732*	2nd line of guest intermediate msg.		
2832*	3rd line of guest intermediate msg.		
2932*	4th line of guest intermediate msg.		
3032*	1st line of guest bottom msg.		
3132*	2nd line of guest bottom msg.		
3232*	3rd line of guest bottom msg.		
3332*	4th line of guest bottom msg.		
3432*	5th line of guest bottom msg.		
3532*	6th line of guest bottom msg.		
3632*	7th line of guest bottom msg.		
3732*	8th line of guest bottom msg.		
3832*	9th line of guest bottom msg.		
3932*	10th line of guest bottom msg.		

* If you want to use these messages, please ask your dealer.

Fix totalizer

Up to 12 characters can be set.

Address code	Contents	Initial character	Address code	Contents	Initial character
Fix totalizer					
0101	Gross sales total	GROSS	5101	Clerk commission 1 total	C-1
0201	Net sales total	NET	5201	Clerk commission 2 total	C-2
0301	Cash in drawer	CAID	5301	Foreign currency cash in drawer 1	CECA1
0401	Cash declared amount	CATL	5401	Foreign currency check in drawer 1	CECK1
0501	Declared short cash amount	CA-	5501	Foreign currency cash in drawer 2	CECA2
0601	Declared over cash amount	CA+	5601	Foreign currency check in drawer 2	CECK2
0701	Charge in drawer	CHID	5701	Foreign currency cash in drawer 3	CECA3
0801	Charge declared amount	CHTL	5801	Foreign currency check in drawer 3	CECK3
0901	Declared short charge amount	CH-	5901	Foreign currency cash in drawer 4	CECA4
1001	Declared over charge amount	CH+	6001	Foreign currency check in drawer 4	CECK4
1101	Check in drawer	CKID	6101	Reduction	DC
1201	Check declared amount	CKTL	6201	Item return	REF
1301	Declared short check amount	CK-	6301	Clear counter	CLEAR
1401	Declared over check amount	CK+	6401	Rounding 2	ROUND
1501	Credit 1 in drawer	CRID(1)	6501	Rounding 1	ROUND
1601	Credit 2 in drawer	CRID(2)	6601	Cancellation	CANCEL
1701	Credit 3 in drawer	CRID(3)	6701	Taxable amount 1	TA1
1801	Credit 4 in drawer	CRID(4)	6801	Tax 1	TX1
1901	Credit declared amount	CRTL	6901	Tax exempt 1	EX1
2001	Declared short credit amount	CR-	7001	Taxable amount 2	TA2
2101	Declared over credit amount	CR+	7101	Tax 2	TX2
2201	Cash in drawer *	CAID2	7201	Tax exempt 2	EX2
2301	Cash declared amount *	CATL2	7301	Taxable amount 3	TA3
2401	Declared short cash amount *	CA- 2	7401	Tax 3	TX3
2501	Declared over cash amount *	CA+ 2	7501	Tax exempt 3	EX3
2601	Charge in drawer *	CHID2	7601	Taxable amount 4	TA4
2701	Charge declared amount *	CHTL2	7701	Tax 4	TX4
2801	Declared short charge amount *	CH- 2	7801	Tax exempt 4	EX4
2901	Declared over charge amount *	CH+ 2	7901	Taxable amount 5	TA5
3001	Check in drawer *	CKID2	8001	Tax 5	TX5
3101	Check declared amount *	CKTL2	8101	Tax exempt 5	EX5
3201	Declared short check amount *	CK- 2	8201	Taxable amount 6	TA6
3301	Declared over check amount *	CK+ 2	8301	Tax 6	TX6
3401	Credit 1 in drawer *	CRID2(1)	8401	Tax exempt 6	EX6
3501	Credit 2 in drawer *	CRID2(2)	8501	Taxable amount 7	TA7
3601	Credit 3 in drawer *	CRID2(3)	8601	Tax 7	TX7
3701	Credit 4 in drawer *	CRID2(4)	8701	Tax exempt 7	EX7
3801	Credit declared amount *	CRTL2	8801	Taxable amount 8	TA8
3901	Declared short credit amount *	CR- 2	8901	Tax 8	TX8
4001	Declared over credit amount *	CR+ 2	9001	Tax exempt 8	EX8
4101-4401	Not used		9101	Taxable amount 9	TA9
4501	Refund mode total	RF	9201	Tax 9	TX9
4601	Customer count	CUST	9301	Tax exempt 9	EX9
4701	Average sales per customer	AVRG	9401	Taxable amount 10	TA10
4801	Check cashing service fee	FEE	9501	Tax 10	TX10
4901	New Balance fee	+	9601	Tax exempt 10	EX10
5001	New balance total	NB	9701	Nontaxable amount	NON TAX

* For sub currencies

Report header

Up to 12 characters can be set.

Address code	Contents	Initial character
Report header		
0124	Fixed totalizer report	FIX
0224	Transaction key report	TRANS
0324	PLU report	PLU
0424	Department report	DEPT
0524	Group report	GROUP
0624	Cashier/clerk report	CASHIER
0724	Not used	
0824	Hourly sales report	HOURLY
0924	Monthly sales report	MONTHLY
1024-1324	Not used	
1424	Hourly item	HOURLY ITEM
1524	Not used	
1624	Financial report	FLASH
1724	Not used	
1824	PLU by amount	PLU AMT
1924	PLU by quantity	PLU QTY
2024	Department by amount	DEPT AMT
2124	Department by quantity	DEPT QTY
2224-2324	Not used	
2424	Individual report	INDIVIDUAL
2524	Not used	

Machine number

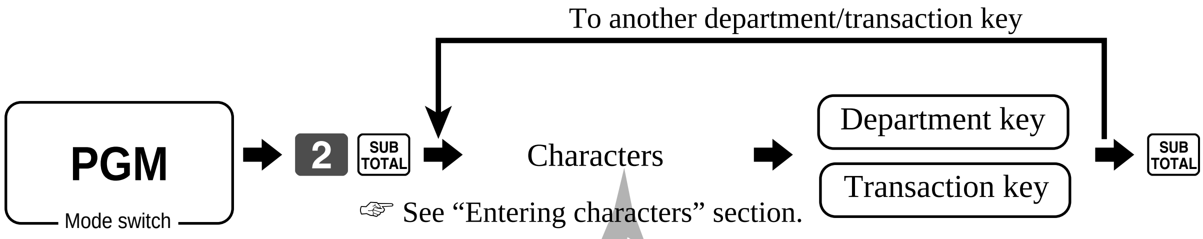
Up to 8 characters can be set.

Address code	Contents	Initial character
Machine number		
0191	Machine number	MC#01

Special characters

Address code	Contents	Descriptor
0123	Main currency symbol (2), @(2), No. (2), split pricing (2), Training filler (1), not used(2), Sub currency symbols (2)	· @No / ** €
0223	No. of item sold (2), Customer count (2),	NoCT@ LB *QT
0323	Multiplication (6), Recalling for a check (6)	X BUSY
0423	Taxable symbol 1 (3 ea.) Tax1, Tax2, Tax3, Tax4, Tax5	T1 T2 T3 T4 T5
0523	Taxable symbol 2 (3 ea.) Tax6, Tax7, Tax8, Tax9, Tax10	T6 T7 T8 T9 T10
0623	Taxable symbol 3 (3 ea.) Tax1/2, Tax1/3, Tax1/4, not used, Tax2/3	T12T13T14 T23
0723	Taxable symbol 4 (3 ea.) not used, not used, not used,Nontax,All	T F
0823	Foreign currency (2 ea.)	* * * *
0923	Mode symbol 1 (4 ea.) REG1/2, RF, REG–	REG RFR–MGR
1023	Mode symbol 2 (4 ea.) PGM, Daily X, Daily Z, Periodic	Pm X Z XZ
1123	Mode symbol 3 (4 ea.) Training, not used, PGM read	TRG PGMX
1223	Decimal: amount/q'ty, Separator (Main/Sub) (1 ea.), not used (3), Square (7)	..,.., X
1323	A.M., P.M. (3 ea.), ST displayed on the dot display (2)	AM PM ST
1423-1523	(not used)	
1623	(not used)	
1723	Subtotal symbol (16)	ST
1823	Total symbol (16)	TL
1923	Change symbol (16)	CG
2023	Check cashing fee (16)	-
2123	Check cashing amount (16)	CACG
2223	(not used)	
2323	Break (16)	**BREAK END**
2423	Check No. (10)	CHECK No.
2523	Service total (16)	SRVC TL
2623	(not used)	
2723-2823	(not used)	
2923	Report total symbol(16)	TL
3023-3223	(not used)	
3323	Table no. symbol (10)	TABLE No.
3423	(not used)	
3523	Declared amount (16)	DECLA
3623	(not used)	
3723-4123	(not used)	
4223	Designating sub currency (16)	EURO money

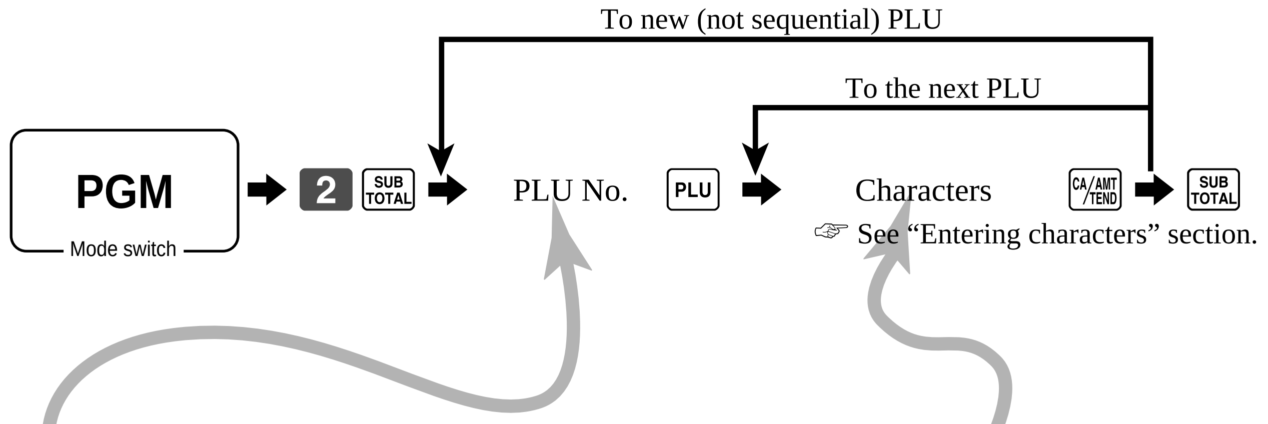
Programming department/transaction key descriptor



Contents	Initial character	Yours
Department 01	DEPT01	
Department 02	DEPT02	
Department 03	DEPT03	
Department 04	DEPT04	
Department 05	DEPT05	
Department 06	DEPT06	
Department 07	DEPT07	
Department 08	DEPT08	
Department 09	DEPT09	
Department 10	DEPT10	
Department 11	DEPT11	
Department 12	DEPT12	
Department 13	DEPT13	
Department 14	DEPT14	
Department 15	DEPT15	

Contents	Initial character	Yours
Cash/Amount tendered	CASH	
Charge	CHARGE	
Credit 1	CREDIT1	
Credit 2	CREDIT2	
Check	CHECK	
Received on account	RC	
Paid out	PD	
Coupon	COUPON	
Minus	-	
Discount	%-	
Refund	RF	
Correction	CORR	
Validation	VLD	
Receipt	RCT	
Non add/No sale	#/NS	
VAT	VAT	
PLU	PLU#	
Price	PRC	
Open	OPEN	
Subtotal	SUBTOTAL	
Receipt on/off	RCT ON/OFF	
Multiplication/Date time	X	
Two zero	00	
Decimal point	.	
Media change	MEDIA CHG	

Programming PLU descriptor



PLU No.	Contents	Initial character	Yours
001	PLU 001	PLU0001	
002	PLU 002	PLU0002	
003	PLU 003	PLU0003	
004	PLU 004	PLU0004	
005	PLU 005	PLU0005	
006	PLU 006	PLU0006	
007	PLU 007	PLU0007	
008	PLU 008	PLU0008	
009	PLU 009	PLU0009	
010	PLU 010	PLU0010	
011	PLU 011	PLU0011	
012	PLU 012	PLU0012	
013	PLU 013	PLU0013	
014	PLU 014	PLU0014	
015	PLU 015	PLU0015	
016	PLU 016	PLU0016	
017	PLU 017	PLU0017	
018	PLU 018	PLU0018	
019	PLU 019	PLU0019	
020	PLU 020	PLU0020	
021	PLU 021	PLU0021	
022	PLU 022	PLU0022	
023	PLU 023	PLU0023	
024	PLU 024	PLU0024	
025	PLU 025	PLU0025	
026	PLU 026	PLU0026	
027	PLU 027	PLU0027	
028	PLU 028	PLU0028	
029	PLU 029	PLU0029	
098	PLU 098	PLU0098	
099	PLU 099	PLU0099	
100	PLU 100	PLU0100	

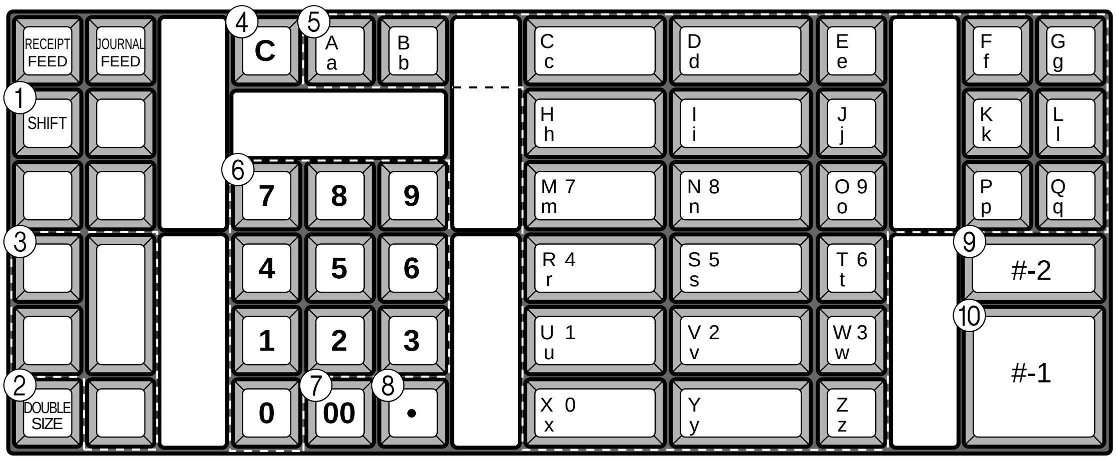
Entering characters

In this section, the method to enter descriptors or messages (characters) to the cash register during programming is described.
Characters are specified by character keyboard or by codes. In the first half of this section, the usage of character keyboard is described. In the latter half, inputting method by character code is described.

Using character keyboard

Example:

Input “ A p p l e J u i c e ”,
enter “DBL”“A” “SHIFT”“p” “p” “l” “e” “SPACE”“SHIFT” “SHIFT”“J” “SHIFT”“u” “i” “c” “e” 00 .



① **Shift key**
Pressing this key shifts the character through the uppercase letter, lower case letter, numerics and returns to the uppercase letter in sequence.

② **Double size letter key**
Specifies that the next character you input to a double size character.
You must press this key before each double size character.

③ **Space key**
Sets a space by depression.

④ **Clear key**
Clears all input characters in the programming.

⑤ **Alphabet keys**
Used input to characters.

⑥ **Numeric keys**
Used to enter program codes, memory number and character codes.

⑦ **Character fixed key**
Enter when the alphabetic entry for a descriptor, name or message has been completed.

⑧ **Backspace/Character code fixed key**
Registers one character with code (2 or 3 digit).
Clears the last input character, much like a back space key. (Does not clear the double size letter key entry.)

⑨ **Program end key**
Terminates the character programming.

⑩ **Character enter key**
Registers the programmed characters.

Entering characters by code

Every time you enter a character, choose character codes by the character code list (below) and press the [•] key to settle it. After you complete entering characters, press the [00] key to fix them.

Example:

Input “ A p p l e J u i c e ”,

enter “ 255 [•] 65 [•] 112 [•] 112 [•] 108 [•] 101 [•] 32 [•] 74 [•] 117 [•] 105 [•] 99 [•] 101 [•] [00] ”

Character code list

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
Space	32	0	48	@	64	P	80	`	96	p	112	Ç	128
!	33	1	49	A	65	Q	81	a	97	q	113	ü	129
"	34	2	50	B	66	R	82	b	98	r	114	é	130
#	35	3	51	C	67	S	83	c	99	s	115	â	131
$	36	4	52	D	68	T	84	d	100	t	116	ä	132
%	37	5	53	E	69	U	85	e	101	u	117	à	133
&	38	6	54	F	70	V	86	f	102	v	118	å	134
'	39	7	55	G	71	W	87	g	103	w	119	ç	135
(	40	8	56	H	72	X	88	h	104	x	120	ê	136
)	41	9	57	I	73	Y	89	i	105	y	121	ë	137
*	42	:	58	J	74	Z	90	j	106	z	122	è	138
+	43	;	59	K	75	[	91	k	107	{	123	ï	139
,	44	<	60	L	76	\	92	l	108	|	124	î	140
-	45	=	61	M	77	]	93	m	109	}	125	ì	141
.	46	>	62	N	78	^	94	n	110	~	126	Ä	142
/	47	?	63	O	79	_	95	o	111		127	Å	143

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
É	144	á	160	░	176	└	192	ð	208	Ó	224	-	240
æ	145	í	161	▒	177	┴	193	Ð	209	ß	225	±	241
Æ	146	ó	162	▓	178	┬	194	Ê	210	Ô	226	‗	242
ô	147	ú	163	│	179	├	195	Ë	211	Ò	227	¾	243
ö	148	ñ	164	┤	180	─	196	È	212	õ	228	¶	244
ò	149	Ñ	165	Á	181	┼	197	€	213	Õ	229	§	245
û	150	ª	166	Â	182	ã	198	Í	214	µ	230	÷	246
ù	151	º	167	À	183	Ã	199	Î	215	þ	231	¸	247
ÿ	152	¿	168	©	184	╚	200	Ï	216	Þ	232	°	248
Ö	153	®	169	╣	185	╔	201	┘	217	Ú	233	¨	249
Ü	154	¬	170	║	186	╩	202	┌	218	Û	234	·	250
ø	155	½	171	╗	187	╦	203	█	219	Ù	235	¹	251
£	156	¼	172	╝	188	╠	204	▄	220	ý	236	³	252
Ø	157	¡	173	¢	189	═	205	¦	221	Ý	237	²	253
×	158	«	174	¥	190	╬	206	Ì	222	¯	238	■	254
ƒ	159	»	175	┐	191	¤	207	▀	223	´	239	Double size	255

Keyboard layout change

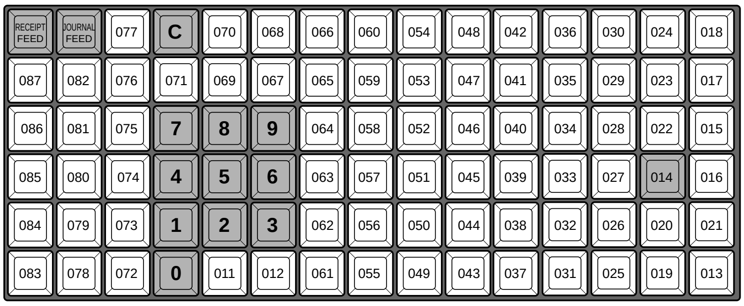
You can change the keyboard layout or allocate some new functions on the keyboard.

Important!

Before changing the keyboard layout, you must issue the daily and all periodic report.

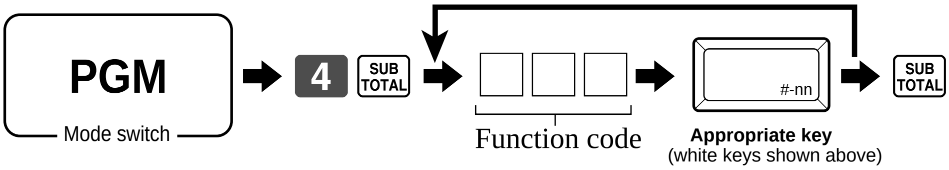
Configuration of the physical key layout

The shadowed keys are fixed function keys. You can not change the function of these keys.



Programming procedure

The shadowed keys are fixed function keys. You can not change the function of these keys.



Function code list

Function	Code	Initial character	Function	Code	Initial character
Arrangement	044	**ARG**	Non-add/No sale	041	**#/NS**
Bill copy	047	**BILL**	Open	067	**OPEN**
Cancel	236	**CNCL**	Open2	068	**OPEN2**
Cash amount tendered	001	**CASH**	Paid out	021	**PD**
Charge	002	**CHARGE**	Pick up	022	**P.UP**
Check tender	003	**CHECK**	Plus	029	**+**
Clerk number	072	**CLK#**	PLU	048	**PLU#**
Coupon	023	**COUPON**	Previous balance	026	**PB**
Coupon 2	036	**CPN2**	Previous balance subtotal	079	**PBST**
Credit	004	**CREDIT**	Premium	030	**%+**
Cube	090	**XXX**	Price	049	**PRC**
Currency exchange	045	**CE**	Quantity/For	083	**QT**
Customer number	043	**CT**	Rate tax	031	**TAX**
Decimal point *	098	**.**	Receipt	038	**RCT**
Declaration	061	**DECLARE**	Receipt On/Off	076	**RCT ON/OFF**
Department	nn051	**DEPTnn**	Received on account	020	**RC**
Deposit	025	**DEPOSIT**	Refund	033	**RF**
Discount	028	**%–**	Review	071	**REVIEW**
Eat-in	128	**EAT-IN**	Square	084	**XX**
Enter	105	**ENTER**	Subtotal	075	**SUBTOTAL**
Error correct	034	**CORR**	Table number	058	**TBL#**
Flat PLU	nnnn063	**PLUnnnn**	Take-out	129	**TAKE-OUT**
Loan	019	**LOAN**	Tax exempt	062	**EXEMPT**
Lock out unused key	000	**NOP**	Tax status shift	057	**T/S**
Manual tax	032	**TAX**	Taxable amount subtotal	077	**TAST**
Media change	118	**MEDIA CHG**	Text recall	010	**CHAR**
Menu shift	064	**MENU**	Three zero *	097	**000**
Merchandise subtotal	080	**MDST**	Tip	015	**TIP**
Minus	027	**–**	Tray total	074	**TRAY TL**
Multiplication	082	**X**	Two zero *	096	**00**
New balance	006	**NB**	Validation	037	**VLD**
No sale	042	**NS**	VAT	046	**VAT**
Non-add	040	**#**	Void	035	**VOID**

* Two zero, three zero and decimal point key can only be allocated #011 and #012 position.

The outline of functions

Bill copy
Use this key to issue bill copy.

Cube
This key provides the same functions as the Square key. In addition, this key also has a cube multiplication function.

Customer number
Use this key to register the number of customers.

Declaration
Use this key to declare in drawer amount for money declaration.

Deposit
Use this key to register deposits.

Eat-in
Use this key to specify if the customer eats in the restaurant. Before closing a transaction press this key.

Flat PLU
Use this key to register items to flat PLUs.

Manual tax
Use this key to register a tax amount.

Menu shift
Use this key to shift flat-PLU key to the 1st ~ 6th menu.

Merchandise subtotal
Use this key to obtain subtotal excluding the add-on tax amount and the previous balance.

New balance
Use this key for adding the latest registered total amount to the previous balance to obtain a new balance.

Non add
Use this key to print reference numbers (personal check number, card number, etc.)

Premium
Use this key to apply a preset % or manual input % to obtain the premium amount for the last registered item or subtotal.

Previous balance
Use this key to register the previous negative/positive balance at the beginning of or during a transaction.

Previous balance subtotal
Use this key to obtain subtotal excluding the add-on tax amount and current balance.

Rate tax
Use this key to activate the preset tax rate or manually input rate to obtain the tax for the preceding taxable status 1 amount.

Review
Use this key to examine the current transaction by displaying item descriptor and registered amount. This key is also used for void operation.

Square
This key provides the same functions as the Multiplication key. In addition, this key also has a square multiplication function.

Table number
Use this key to input table numbers.

Takeout
Use this key to specify if the customer takes out items. Before total a transaction. Press this key for the tax exemption.

Tax exempt
Use this key to change taxable amounts to nontaxable amounts.

Taxable amount subtotal
Use this key to obtain taxable amount subtotal.

Text recall
Use this key to print preset characters.

Tip
Use this key to register tips.

Tray total
Use this key to display the total amount for all registrations from the last registration until this key is pressed or registrations between presses of this key.

Void
Use this key to invalidate preceding item data registered.

Printing read/reset reports

• Daily sales read report ("X1" mode)

You can print read reports at any time during the business day without affecting the data stored in the cash register's memory.

• Daily sales reset report ("Z1" mode)

You should print reset reports at the end of the business day.

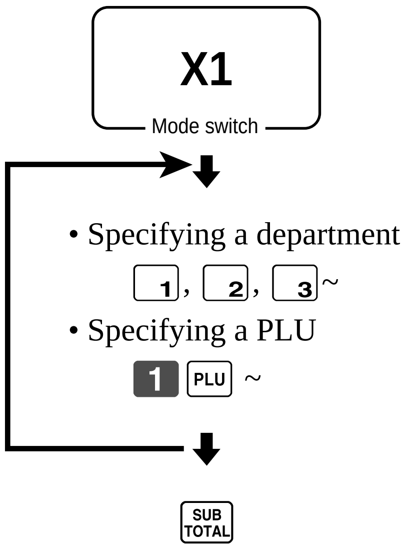
Important!

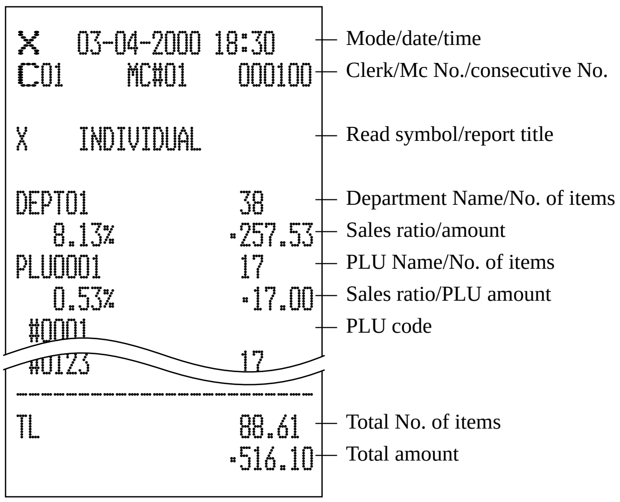
- The reset operation issues a report and also clears all sales data from the cash register's memory.
- Be sure to perform the reset operations at the end of each business day. Otherwise, you will not be able to distinguish between the sales data for different dates.

To print the individual department, PLU read report

This report shows sales for specific departments or PLUs.

OPERATION **REPORT**





After you finish to select items, press SUB TOTAL to terminate.

To print the financial read report

This report shows gross sales, net sales, cash in drawer and check in drawer.

OPERATION

X1
Mode switch

↓

Money declaration *1

- Main currency:
  (Cash in drawer amount [#], [#/NS] or [NS])
- Sub currency:
  ([EURO/PD] cash in drawer amount [#], [#/NS] or [NS])

↓

[X/DATE TIME]

REPORT

Receipt		Description
X FLASH		Read symbol/report title
	0000071	Command code
DECLA	•6,919.04	Declared cash in drawer of main currency *1
	•0.00	Difference (= declared - accumulated) *1
EURO money	€187.67	Declared cash in drawer of sub currency *1
	-10.87	Difference (= declared - accumulated) *1
GROSS	111.15	Gross No. of items
	•7,054.14	Gross amount
NET	No 120	Net No. of customers
	•7,263.20	Net amount
CAID	•6,919.04	Cash in drawer of main currency
CAID2	€178.60	Cash in drawer of sub currency
CKID2	€172.85	Check in drawer of sub currency

To print the individual clerk read/reset report

This report shows individual clerk totals.

OPERATION

X1/Z1
(read/reset)
Mode switch

↓

Money declaration *1

- Main currency:
  (Cash in drawer amount [#], [#/NS] or [NS])
- Sub currency:
  ([EURO/PD] cash in drawer amount [#], [#/NS] or [NS])

↓

[2] [0] [0] [1] [7] [CA/AMT TEND]

↓

[ ] [ ] [ ] [ ] [CA/AMT TEND]
Enter the appricable clerk number.

↓

[SUB TOTAL]
After you finish to select clerks, press [SUB TOTAL] to terminate.

REPORT

Receipt		Description
Z CASHIER	0001	Read symbol/report title/reset counter
	0020017	Command code
DECLA	•6,919.04	Declared cash in drawer of main currency *1
	•0.00	Difference (= declared - accumulated) *1
EURO money	€187.67	Declared cash in drawer of sub currency *1
	-10.87	Difference (= declared - accumulated) *1
C01	1	Clerk name/drawer No.
GROSS	421.25	Gross total
	•2,872.28	
NET	No 111	Net total
	•1,845.35	
CAID	•1,057.14	Cash in drawer
CHID	•139.04	
RF	No 1	Refund mode
	•1.00	
CLEAR	No 5	Clear key count
	•4.43	
C02	1	Clerk name/drawer No.

*1 Money declaration:
Count how much cash is in the drawer and input this amount (up to 10 digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming (page 58), you cannot skip this procedure.

To print the daily sales read/reset report

This report shows sales except for PLUs.

OPERATION

X1/Z1 (read/reset) Mode switch

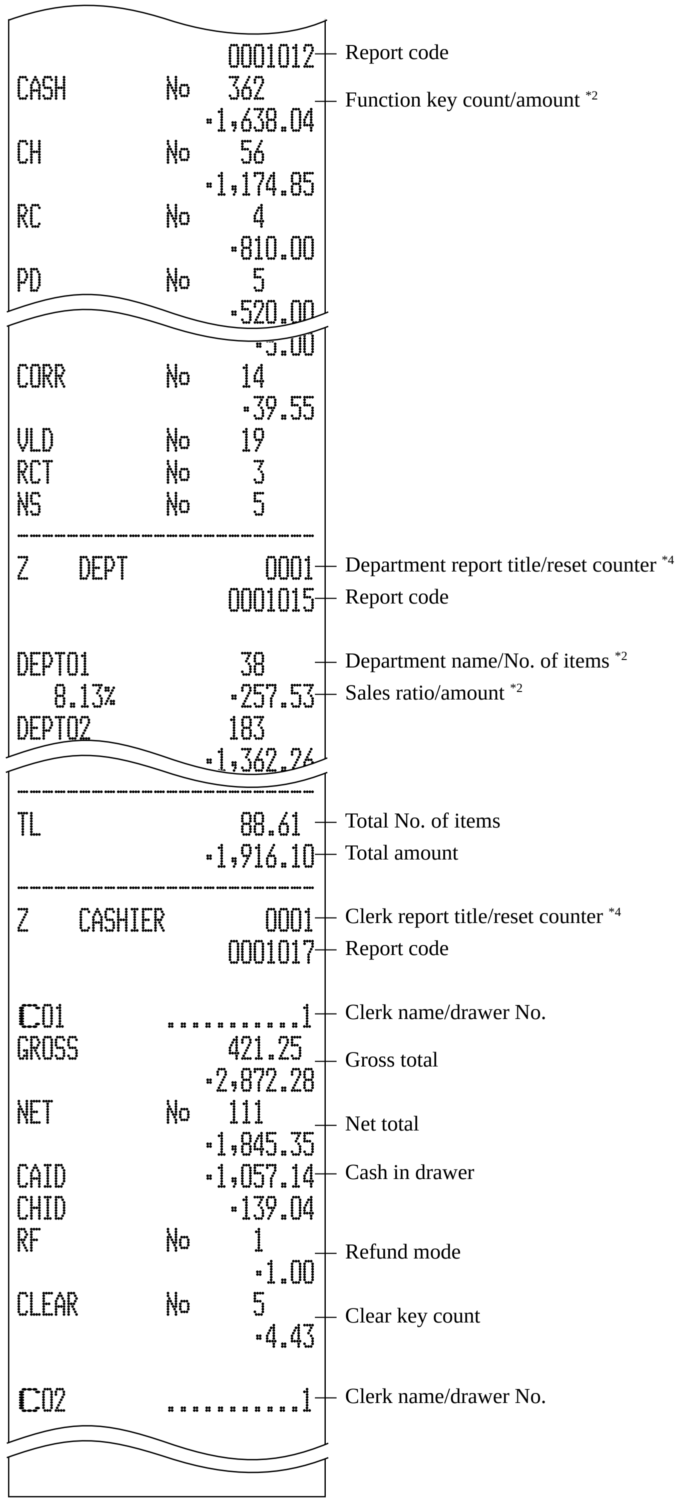
Money declaration *1

- Main currency:
  (Cash in drawer amount #, #/NS or NS)
- Sub currency:
  (EURO/PD cash in drawer amount #, #/NS or NS)

CA/AMT TEND

REPORT

Report			Description
Z	BATCH01		Report title
Z	FIX	0001	Fixed total report title/reset counter *4
		0001011	Report code
DECLA		•6,919.04	Declared cash in drawer of main currency *1
		•0.00	Difference (= declared - accumulated) *1
EURO money		€187.67	Declared cash in drawer of sub currency *1
		-10.87	Difference (= declared - accumulated) *1
GROSS		981.25 •6,574.40	Gross total *3
NET	No	111 •7,057.14	Net total *3
CAID		•6,919.04	Cash in drawer *3
CHID		•139.04	Charge in drawer *3
CKID		•859.85	Check in drawer *3
CRID(1)		•709.85	Credit in drawer *3
RF	No	3 •10.22	Refund mode *3
CUST	CT	111	Customer number *3
AVRG		•63.57	Average sales per customer *3
DC		•1.22	Discount total *3
REF		•2.42	Refund key *3
CLEAR	No	85	Clear key count *3
ROUND		•0.00	Rounding total *3
CANCEL	No	2 •12.97	Cancellation *3
TA1		•2,369.69	Taxable 1 amount *3
TX1		•128.86	Tax 1 amount *3
TA2		•2,172.96	Taxable 2 amount *3
TX2		•217.33	Tax 2 amount *3
GT1		•00000000125478.96	Grand total 1 *3
GT2		•00000000346284.23	Grand total 2 *3
GT3		•00000000123212.75	Grand total 3 *3
Z	TRANS	0001	Function key report title/reset counter *4



*1 Money declaration:
Count how much cash is in the drawer and input this amount (up to 10 digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming (page 58), you cannot skip this procedure.

*2 Zero totalled departments/functions (the amount and item numbers are both zero) are not printed.

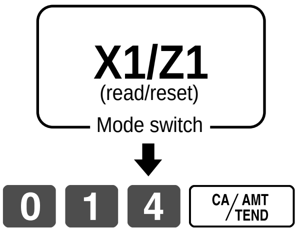
*3 These items can be skipped by programming.

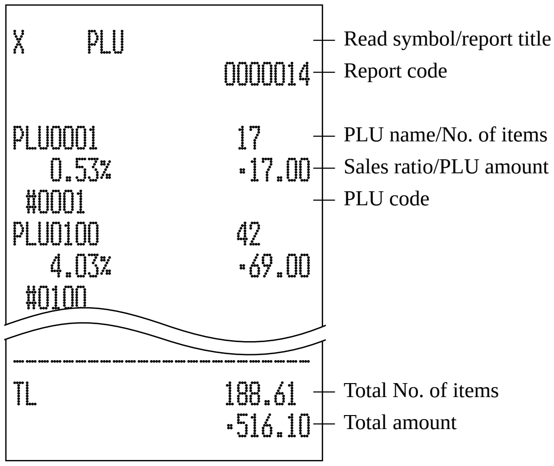
*4 The "⁑" symbol is printed on the reset report, memory overflow occurred in the counter/totalizer.

To print the PLU read/reset report

This report shows sales for PLUs.

OPERATION | **REPORT**

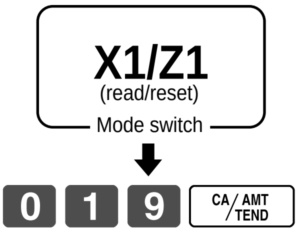


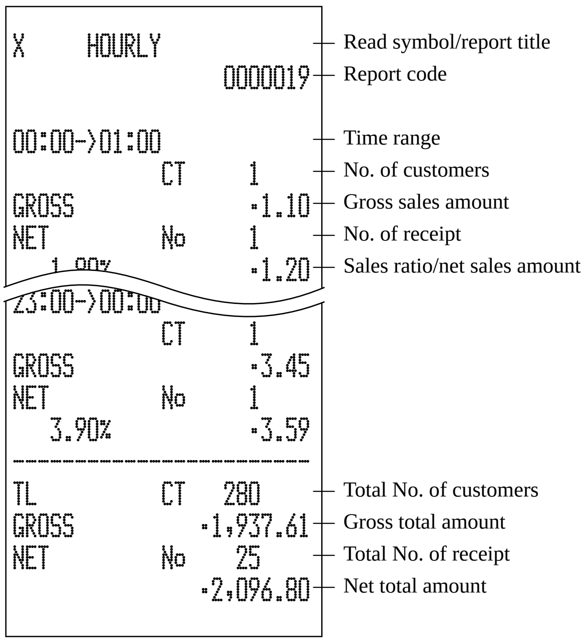


To print the hourly sales read/reset report

This report shows hourly breakdowns of sales.

OPERATION | **REPORT**

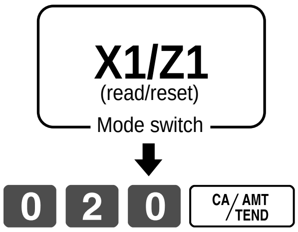


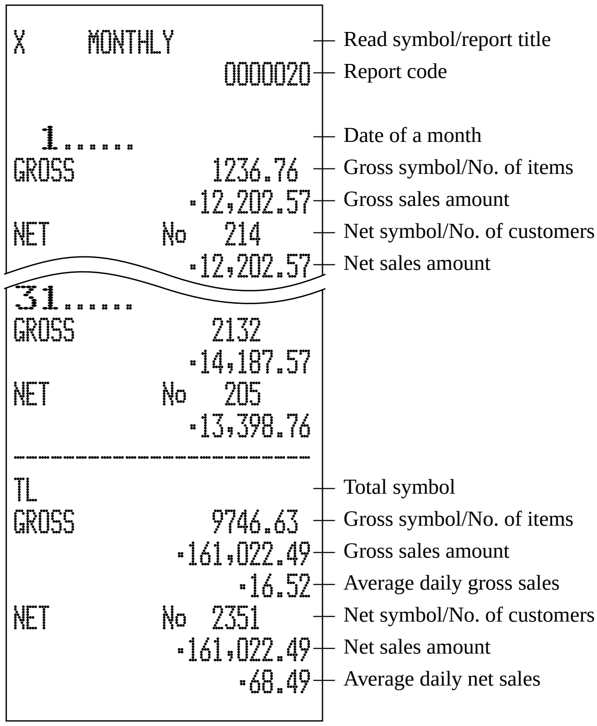


To print the monthly sales read/reset report

This report shows monthly breakdowns of sales.

OPERATION | **REPORT**

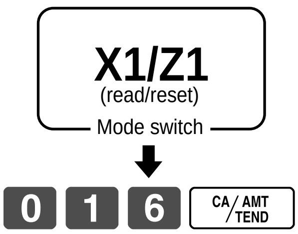


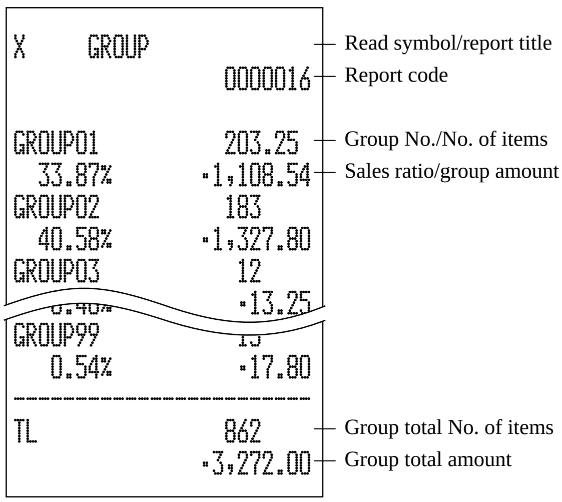


To print the group read/reset report

This report shows PLU/department group totals.

OPERATION | **REPORT**





- **Periodic sales read report ("X2" mode)**

  You can print read reports at any time during the business day without affecting the data stored in the cash register's memory.

- **Periodic sales reset report ("Z2" mode)**

  You should print reset reports at the end of the business day.

To print the periodic 1/2 sales read/reset reports

These reports show sales breakdowns of sales by any two kinds of period you want.

OPERATION

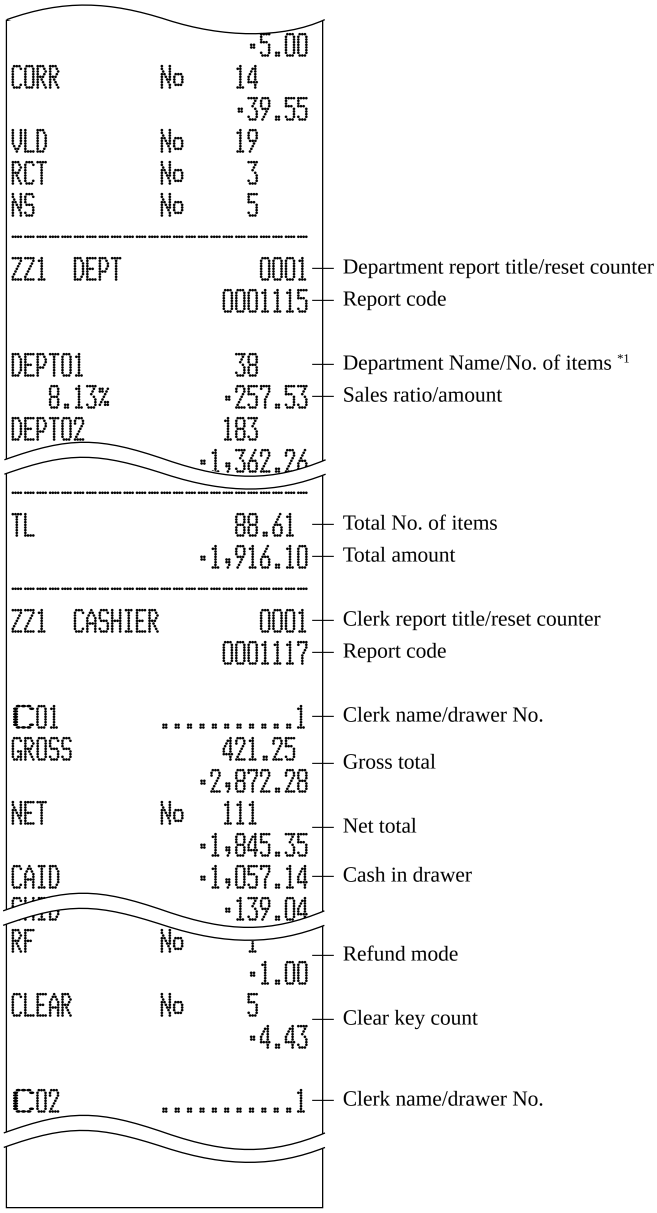
X2/Z2 (read/reset) — Mode switch

↓

1 CA/AMT TEND

REPORT

Report	
ZZ1 BATCH02	Report title
ZZ1 FIX 0001	Fixed total report title/reset counter
0001111	Report code
GROSS 981.25 •6,574.40	Gross total *2
NET No 111 •7,057.14	Net total *2
CAID •6,919.04	Cash in drawer *2
CHID •139.04	Charge in drawer *2
CKID •859.85	Check in drawer *2
CRID(1) •709.85	Credit in drawer *2
RF No 3 •10.22	Refund mode *2
CUST CT 111	Customer number *2
AVRG •63.57	Average sales per customer *2
DC •1.22	Discount total *2
REF •2.42	Refund key *2
CLEAR No 85	Clear key count *2
ROUND •0.00	Rounding total *2
CANCEL No 2 •12.97	Cancellation *2
TA1 •2,369.69	Taxable 1 amount *2
TX1 •128.86	Tax 1 amount *2
TA2 •2,172.96	Taxable 2 amount *2
TX2 •217.33	Tax 2 amount *2
ZZ1 TRANS 0001	Function key report title/reset counter
0001112	Report code
CASH No 362 •1,638.04	Function key count/amount *1
CH No 56 •1,174.85	
RC No 4 •810.00	
PD No 5	



*1 Zero totalled departments/functions (the amount and item numbers are both zero) are not printed.
*2 These items can be skipped by programming.

Reading the cash register's program

To print unit price/rate program (except PLU)

OPERATION	REPORT

OPERATION

PGM
Mode switch

↓

1 SUB TOTAL

↓

SUB TOTAL

REPORT

```
P01....................     — Program read symbol

CASH              @100.00   — Transaction key unit price or rate
CHECK               @1.00
-                   @1.00
%-                    10%

DEPT01            0001-05   — Department descriptor/rec-#/file-#
          1.2       @1.00   — Unit quantity/unit price
DEPT02            0002-05
          1         @2.00
```

To print key descriptor, name, message program (except PLU)

OPERATION	REPORT

PGM
Mode switch

↓

2 SUBTOTAL

↓

SUBTOTAL

```
P02.....................          — Program read symbol

GROSS              0001-01
NET                0002-01
CAID               0003-01        — Fix total character
CATL               0004-01

CASH               0001-02
CHARGE             0002-02        — Transaction key character
CHECK              0003-02
                   0004-02

DEPT01             0001-05
DEPT02             0002-05        — Department character
DEPT03             0003-05

GROUP01            0001-06
GROUP02            0002-06        — Group character
GROUP03            0003-06

C01                0001-07
C02                0002-07        — Clerk character
C03                0003-07
                   0004-07

GT1                0001-20
GT2                0002-20        — Grand total character
GT3                0003-20

 · @No/  **  €     0001-23
NoCT@ LB *QT       0002-23        — Special character
X     BUSY         0003-23

FIX                0001-24
TRANS              0002-24        — Report header character
PLU                0003-24

BATCH 01           0001-29
BATCH 02           0002-29        — Batch X/Z character
BATCH 03           0003-29
                   0004-29
```

```
0001-32
YOUR RECEIPT                      — Receipt message
0002-32
THANK YOU

0001-39
CHARACTER RECALL********          — Recall character
****************
0002-39

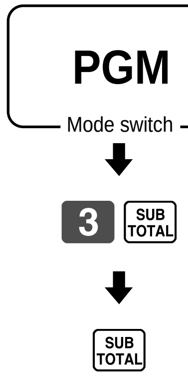
MC#01              0001-91        — Machine No.

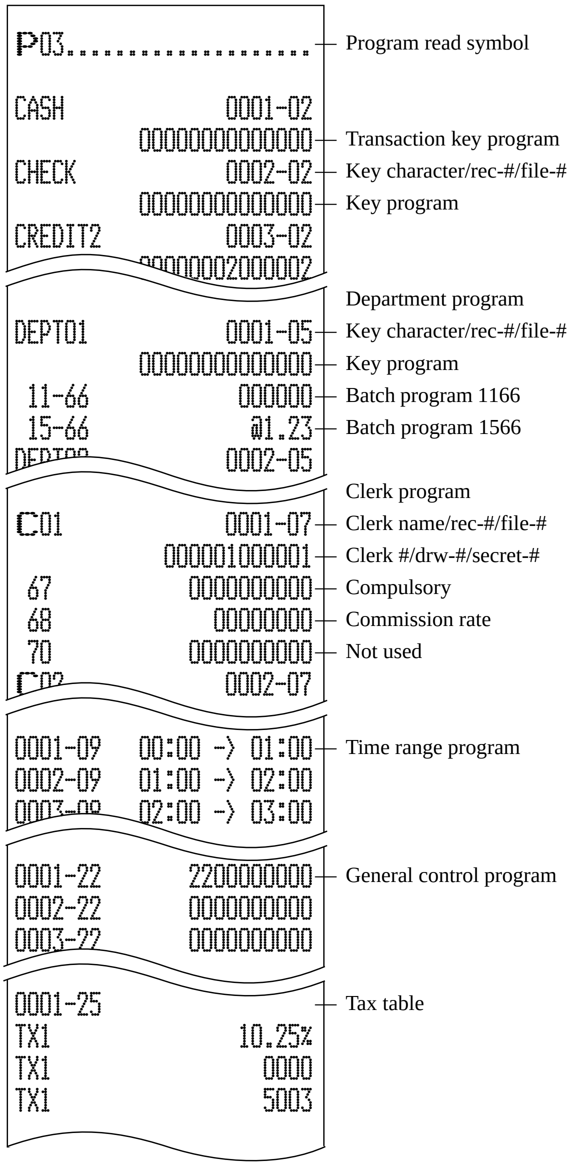
0001-96
AT COMMAND**************
************************          — AT command
**************
0002-96
ATA          ATI4

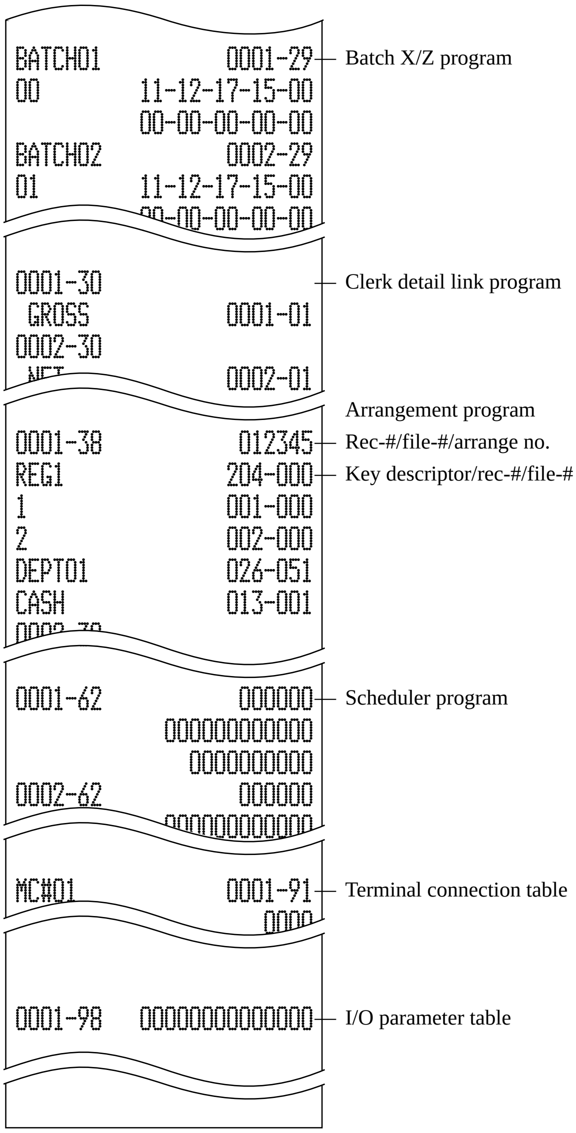
PASSWORD           0001-97        — Online password
```

To print the general control program, compulsory and key program

OPERATION | **REPORT**







To print the keyboard layout program

OPERATION	REPORT

PGM
Mode switch
↓
4 SUB TOTAL
↓
SUB TOTAL

```
P04....................        — Program read symbol

1------------------------
00                0015-02      — Function character/rec-#/file-#
                  011-096      — Hard key code/function code
.                 0013-02
                  012-098
CASH             0123-002
```

To print the PLU program

OPERATION	REPORT

PGM
Mode switch
↓
6 SUB TOTAL
↓
1 0 4 SUB TOTAL (PLU unit price read)

3 0 4 SUB TOTAL (PLU program read)
↓
□□□□□□ PLU start No.
↓ If skipped, starts from PLU1.
CA/AMT TEND
↓
□□□□□□ PLU end No.
↓ If skipped, ends the last PLU.
CA/AMT TEND
↓
CA/AMT TEND

```
P01....................        — Program read symbol

     #0001-#0003               — Read range
PLU0001           0001-04      — Item character/rec-#/file-#
                  #000001      — Random code
         1.2        @1.00      — Unit quantity/unit price
PLU0002           0002-04
                  #000002
         1          @2.00
```

```
P03....................        — Program read symbol

     #0001-#0003               — Read range
PLU0001           0001-04      — Item character/rec-#/file-#
          00000000000000       — Batch program 01 ~ 1066, 18 ~ 1966
 11-66             000000      — Batch program 1166
 12-66            #000001      — Batch program 1266
 13-66       <-   0001-28      — Batch program 1366
 15-66           @1234.56      — Batch program 1566
PLU0002           0002-04
          00000000000000
 11-66             000000
```

This section describes what to do when you have problems with operation.

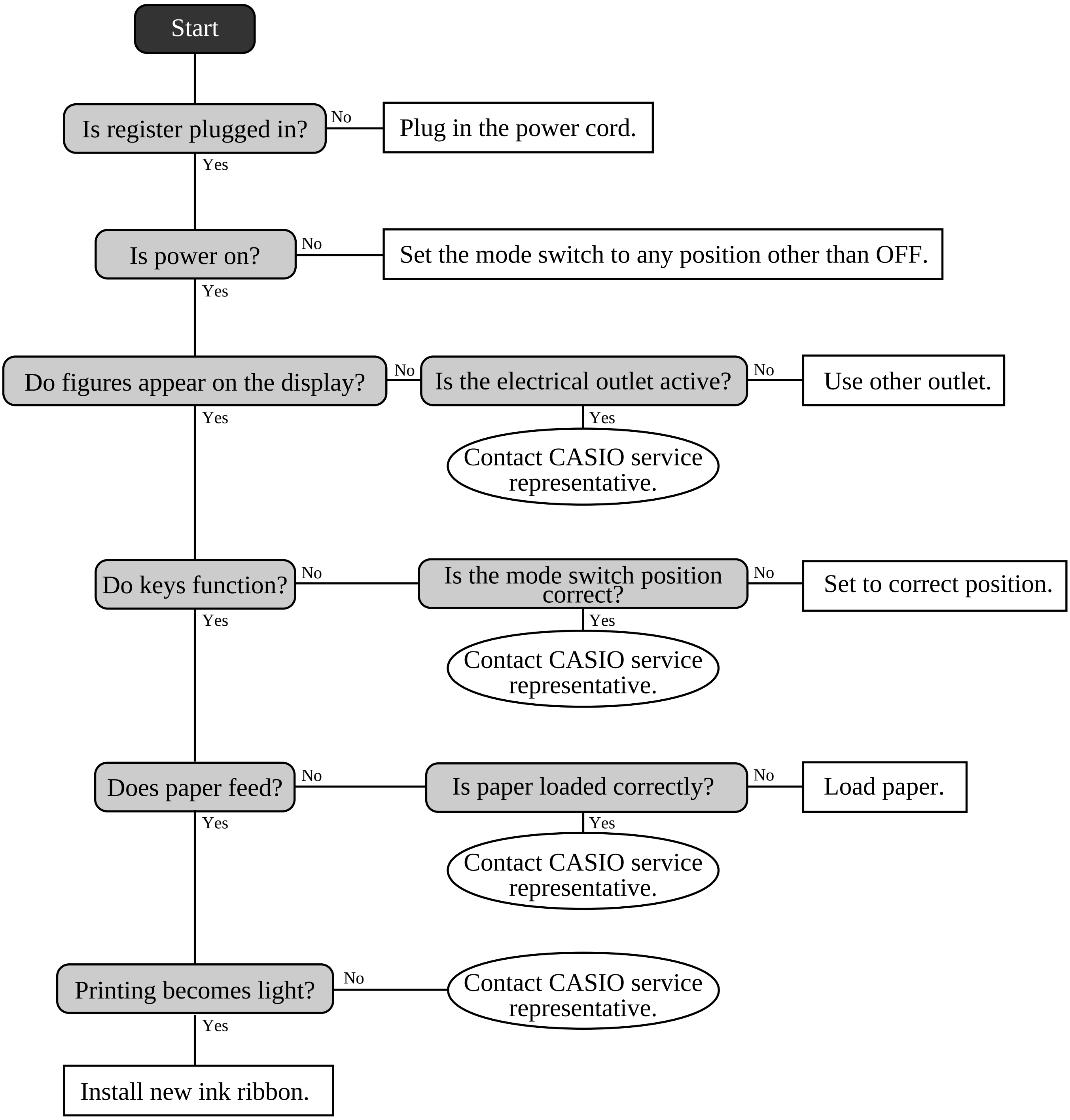
When an error occurs

Errors are indicated by an error codes. When this happens, you can usually find out what the problem is as shown below.

Error code	Meaning	Action
E001	Mode switch position changed before finalization.	Return the mode switch to its original setting and finalize the operation.
E003	Clerk button pressed before finalization of a registration being performed under another clerk button. The signed on clerk differs from the clerk performed the clerk interrupt registration.	Press the original clerk button and finalize the transaction before pressing another clerk button. Assign the proper clerk number.
E004	Initialization or unit lock clear operation in progress.	Complete operation.
E008	Registration without entering a clerk number.	Enter a clerk number.
E009	Operation without entering the password.	Enter password.
E010	Registration is made while the cash drawer is opened. The drawer is left open longer than the program time (drawer open alarm).	Close the drawer.
E011	Attempt to register while the cash drawer is open.	Shut the cash drawer.
E015	Printer error	
E016	Two consecutive transactions attempted in the refund mode.	Switch to another mode and then back to the RF mode for the next transaction.
E018	Attempt made to register an item without inputting a table number.	Input a table number.
E019	Finalize operation attemped without entering the number of customer.	Enter the number of customer.
E021	No department linked PLU is registered.	Correct the program.
E026	No condiment/preparation PLU is registered.	Register condiment/preparation PLU.
E029	Item registration is prohibited, while partial tender.	Finalize the transaction.
E030	Attempt made to finallize the transaction without registering rate-tax.	Register <RATE TAX>.
E031	Finalization of a transaction attempted without confirming the subtotal.	Press <SUBTOTAL>.
E033	Finalize operation attempted without entering amount tender.	Enter the amount tendered.
E035	Change amount exceeds preset limit.	Input amount tendered again.
E036	Contents of the drawer exceed programmed limit.	Perform pick up operation.
E037	High amount lock out/low digit lock out error	Enter correct amount.
E038	Read/reset operation without declaring cash in drawer. This error appears only when this function is activated.	Perform money declaration.
E040	Attempt made to finalize a transaction without issuing a guest receipt.	Issue a guest receipt.
E041	Validation is not performed.	Perform validation operation.
E046	Registration buffer full.	Finalize the transaction.
E049	Index memory full.	Finalize and close the check number currently used.
E050	Detail memory full.	Finalize and close the check number currently used.
E059	Register items without specifying <EAT-IN> or <TAKEOUT>.	Press <EAT-IN> or <TAKEOUT>.
E075	Attempt to finalize a transaction when balance is less than or equal to zero.	Register item(s) until the balance becomes positive amount.
E139	Attempt to register <–>, <CPN>, or <VOID> when the balance becomes negative.	Enter proper minus/coupon amount.
E146	Arrangement file is full.	Set the arrangement properly.
E153	No random PLU code is set.	Set random PLU code.

When the register does not operate at all

Perform the following check whenever the cash register enter an error condition as soon as you switch it on. The results of this check are required by service personnel, so be sure to perform this check before you contact a CASIO representative for servicing.



Clearing a machine lock up

If you make a mistake in operation, the cash register may lock up to avoid damage to programs and preset data. Should it happens, you can use the following procedure to clear the lock up without losing any data.

1 Power off the register.
2 Insert the PGM key in the mode switch.
3 Press down [RECEIPT FEED], and turn the mode switch to PGM mode.
4 The display shows ten Fs, then release [RECEIPT FEED].
5 Press [SUB TOTAL]. The display shows ten Fs and issue a receipt.

Important!

If the register does not show ten Fs, never press [SUB TOTAL] and call service representative.

In case of power failure

If the power supply to the cash register is cut by a power failure or any other reason, simply wait for power to be restored. The details of any on-going transaction as well as all sales data in memory are protected by the memory backup batteries.

- Power failure during a registration
  The subtotal for items registered up to the power failure is retained in memory. You will be able to continue with the registration when power is restored.
- Power failure during printing a read/reset report
  The data already printed before the power failure is retained in memory. After power recovery, the register continues to issue report.
- Power failure during printing of a receipt and the journal
  Printing will resume after power is restored. A line that was being printed when the power failure occurred is printed in full.
- Other
  The power failure symbol is printed and any item that was being printed when the power failure occurred is reprinted in full.

The memory protection battery is constantly charging and discharging as you switch the cash register on and off during normal operations. This causes the capacity of the battery to decrease after approximately five years of use.

Important !

- Remember …a weak battery has the potential of losing valuable transaction data.
- A label on the back of the cash register shows the normal service period of the battery installed in your cash register.
- Have the battery replaced by your dealer within the period noted on this label.

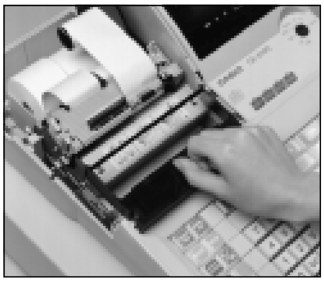
To replace the ink ribbon



1 Open the printer cover.



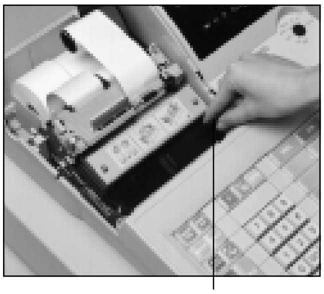
2 Remove the printer sub cover.



3 Pull up the knob of the ribbon cassette.



4 Load a new ink ribbon cassette into the unit.



5 Turn the knob on the right side of the cassette to take up any slack in the ribbon.

6 Replace the printer cover and printer sub cover.

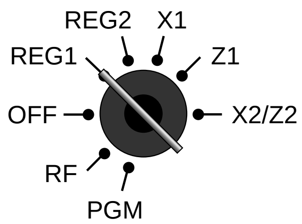
Important!

Use only the ERC-32(P) ribbon (purple). Other types of ink ribbons can damage the printer.

Never try to extend the life of an ink ribbon by replenishing the ink.

Once an ink ribbon is in place, press <#/NS> or <NS> to test for correct operation.

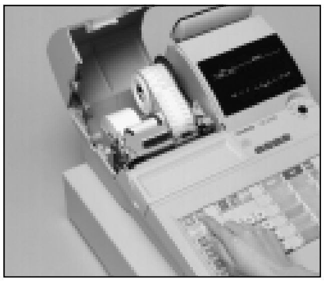
To replace journal paper





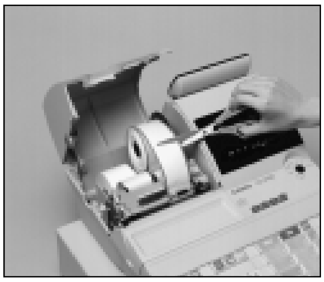
1

Set the mode switch to the REG1 position and remove the printer cover.



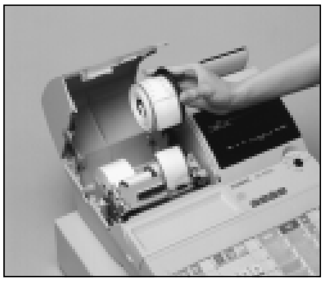
2

Press JOURNAL FEED to feed about 20 cm of paper.



3

Cut the journal paper at the point where nothing is printed.



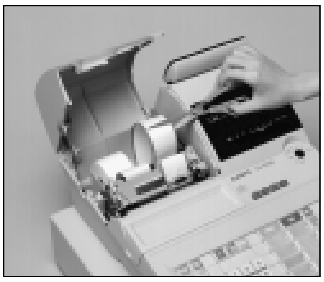
4

Remove the journal take-up reel from its holder.



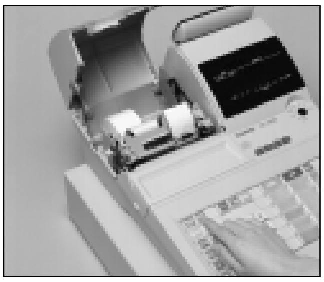
5

Slide the printed journal from the take-up reel.



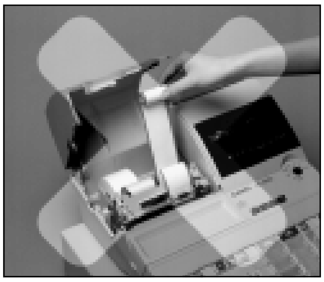
6

Cut the journal paper as shown in the photograph.



7

Press JOURNAL FEED to feed the remaining paper from the printer.



8

Do not pull the paper out of the printer by hand. It can damage the printer.



9

Remove the old paper roll from the cash register.

10

Load new paper as described on page 10 of this manual.

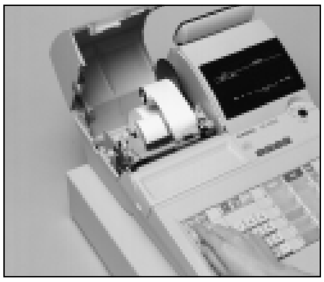
To replace receipt paper

Follow step 1 under "To replace journal paper" on the previous page.



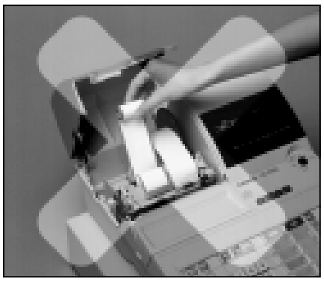
2

Cut the receipt paper as shown in the photograph.



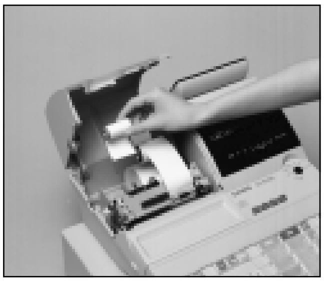
3

Press RECEIPT FEED to feed the remaining paper from the printer.



4

Do not pull the paper out of the printer by hand. It can damage the printer.



5

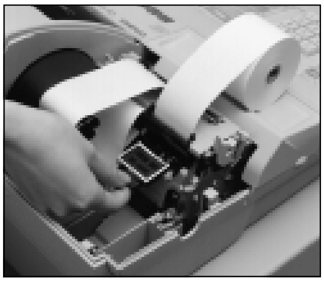
Remove the old paper roll from the cash register.

6

Load new paper as described on page 11 of this manual.

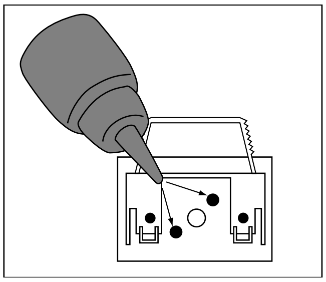
To replenish the stamp ink

Follow step 1 under "To replace journal paper" on the previous page.



2

Remove the stamp pad from its holder by lifting the knob.



3

Squirt one or two drops of ink into the holes on the back of the stamp pad.

4

Replace the stamp pad on its holder.

Options

Wetproof cover: WT-77

Consult with your CASIO dealer for details.

Specifications

Input method
- Entry: 10-key system, buffer memory 8 keys (2-key roll over)
- Department: Full key system

Display

Amount 10 digits (zero suppression); department No., PLU No., No. of repeats, total, change, receipt on/off, transaction indicator

Printer
- Receipt: Dot matrix alpha-numeric system 24 digits, receipt on/off switch (key)
  Store name or slogan can be printed.
- Logo stamp: 20 (H) × 30 (W) mm
- Journal: Dot matrix alpha-numeric system 24 digits
  Automatic take up roll winding
  Journal paper near end sensor (option)
- Validation: 55 digits, one line, for 135 mm (minimum) wide slip
- Paper roll: 45 (W) × 83 (D) mm
- Paper feed: Separate for receipt and journal
- Print speed: 3.0 l/s

Listing capacity
- Amount: 99999999
- Quantity: 9999.999
- Tendered amount: 9999999999
- Percent: 99.99
- Tax rate: 9999.9999
- Numbers: 9999999999999999

Chronological data
- Date print: Automatic date printout on receipt or journal, automatic calendar
- Time print: Automatic time printout on receipt or journal, 24-hour system

Alarm

Key catch tone, error alarm, sentinel alarm

Memory protection battery

48-hour full charge protects memories for approximately 90 days.
Battery should be replaced every five years.

Power supply/power consumption

See the rating plate.

Operation temperature

0˚C ~ 40˚C

Humiditiy

10 ~ 90%

Demensions and weight

454mm (H) × 345mm (W) × 218mm (D) /6.5kg
…without drawer

Totalizers

Category	No. of totalizers	Contents: Amount (10 digits)	Contents: No. of items (6 integer/ 3 decimal)	Contents: Count (4 digits)	Contents: No. of customers (6 digits)	Periodic totalizers
Department	Up to 15	✔	✔			✔
PLU	Up to 100	✔	✔			
Clerk	10	✔	✔	✔		✔
Hourly sales	24	✔			✔	
Monthly sales	31	✔	✔		✔	
Transaction	Variable with program	Variable with program				✔
Non ressettable grand total	3	✔ (16 digits)				
Reset counter	12			✔		
Consecutive No.	1			✔ (6 digits)		

**** Specifications and design are subject to change without notice.***

CASIO®

CASIO COMPUTER CO., LTD.
6-2, Hon-machi 1-chome
Shibuya-ku, Tokyo 151-8543, Japan

SA0002-A CE-6100*E